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Advanced Public Transportation Systems Deployment in the United States

Year 2004 Update

**Final Report
June 2005**



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Year 2004 Update

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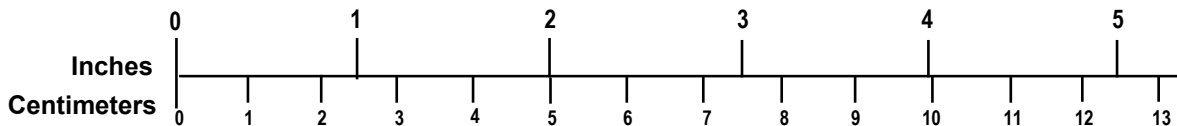
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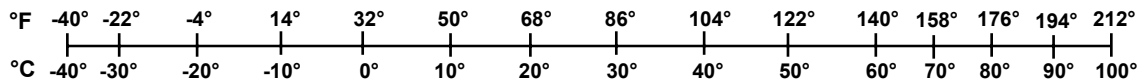
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PREFACE

The research for this report was conducted by the Economic and Industry Analysis Division, Office of System and Economic Assessment, Volpe National Transportation Systems Center, Research and Special Programs Administration, U.S. Department of Transportation under the sponsorship of the Advanced Public Transportation Systems Division, Office of Mobility Innovation, Federal Transit Administration (FTA), U.S. Department of Transportation. Charlene Wilder was the FTA project manager. Funding was provided by the Intelligent Transportation Systems Joint Program Office (ITS/JPO), Federal Highway Administration, U.S. Department of Transportation. Joseph I. Peters was the sponsor. This report is the fifth in a series of biennial reports tracking the existing and planned deployments of Advanced Public Transportation Systems (APTS) technologies and services in the United States.

Appreciation goes to Jonathan Driscoll who made the contacts with all of the agencies outside of the 78 largest metropolitan areas and produced the report data tables. Appreciation also goes to Steve Gordon of Oak Ridge National Laboratory and Juan Noltenius and Andrew Dixson of SAIC for supplying the survey method and instrument, the data for the 78 largest U.S. metropolitan areas, and for use of the server on which the survey responses were stored. FTA and ITS/JPO staff gave many helpful suggestions and comments on the survey, interim data summaries and reports. These staff include: Brian Cronin, Sean Ricketson, William Wiggins, Terrell Williams, Mary Beth Mello, and Yehuda Gross. Finally, appreciation goes to all the agencies that supplied information for this report.

LEGEND

Service Type	
FR	Fixed Route
DR	Demand Response
LR	Light Rail
HR	Heavy Rail
CR	Commuter Rail
FB	Ferry Boat

Status	
X or Other Letter	Operational System
[X or Other Letter]	Planned System
Any Number	# of Existing Vehicles Involved
[Any Number]	# of Planned Vehicles Involved

Advanced Communications	
DIG	Digital Radio
TR	Trunked Radio

Vehicle Probes	
F	On Freeways
A	On Arterials

Automated Transit Information	
P	Pre-Trip
W	Terminal/Wayside
I	In-Vehicle

Automated Fare Payment	
MS	Magnetic Stripe Card
SC	Smart Card

ITS Integration	
RA	Regional architecture
T	Technology to coordinate rail, bus and demand response services

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1 INTRODUCTION

This report presents information on deployment of Advanced Public Transportation Systems (APTS), also known as Intelligent Transportation Systems (ITS) for transit. The summary information included is designed to be useful to both governmental agencies and the private sector for an overview of the current deployment and interest in additional purchase of these systems. The tables presented following this summary information lists deployment and plans by agency.

The information contained in this report was collected by personnel at the Volpe National Transportation Systems Center (Volpe) and the Oak Ridge National Laboratory (ORNL) and SAIC during the Summer and Fall of 2004. This APTS deployment tracking survey was conducted over the Internet, to the extent possible, for 2004. Similar surveys were conducted in prior years, and results from these surveys are used to show trends. The 2002 survey was conducted in a similar fashion to the 2004 survey. Previous surveys were conducted by mail, facsimile, or over the telephone.

Most agencies were able to complete the survey online. Agencies that did not have Internet access or who did not feel comfortable filling out the survey online submitted surveys by mail or by facsimile. The survey method and instrument was developed by the ORNL/SAIC team as part of a larger ITS deployment tracking effort.

As in the 2000 and 2002 surveys, Oak Ridge collected APTS deployment data for jurisdictions containing 50,000 people or more within the 78 largest metropolitan areas of the United States. Agencies from this segment are referred to as large metro agencies. Volpe collected data on APTS deployments in metropolitan areas in the remainder of the United States. Agencies from this segment are referred to as small metro agencies. As for the 2002 survey, since the transit deployment questions were identical for both groups of respondents, nationwide deployment statistics are available. In addition, agencies surveyed by Volpe had the opportunity to request information on general topic areas. This information is used to indicate the degree of interest in APTS technology areas by agencies outside the 78 largest metropolitan areas.

Agencies surveyed consisted primarily of those that report information to the National Transit Database. A total of 516 agencies completed surveys in 2004. Oak Ridge received survey responses from 189 agencies. Volpe received survey responses from 327 agencies. It is recognized that this represents perhaps only about half of the transit operations that exist in the U.S., particularly in jurisdictions outside of the 78 largest metropolitan areas.

The data contained in the report tables are only as accurate as the information provided by the agency contacts. While an attempt was made to verify the information by contacting agencies for confirmation of answers flagged by logical checks, if the agency did not respond to the request for clarification, no additional action was taken. All

responding agencies, whether or not they have existing or planned APTS are listed in the report tables.

2 SUMMARY OF APTS DEPLOYMENTS

This section summarizes the data in three ways: by FTA initiative, by agency market segment, and by individual technologies.

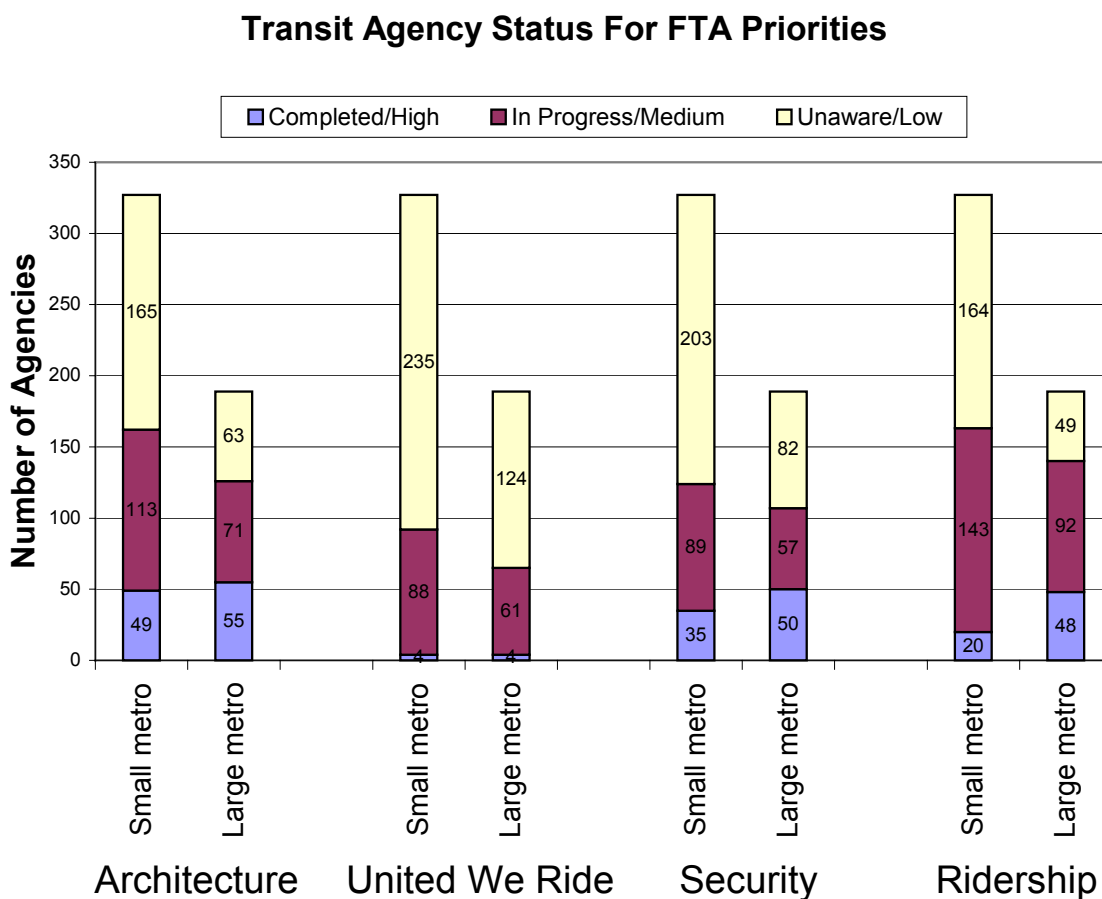
2.1 FTA initiative summaries

There are four FTA initiatives and their supporting technologies discussed in this section:

- Regional architecture development and planning
- United We Ride
- Security
- Ridership

Figure 2-1 summarizes how many agencies fall into the high, medium and low categories for deployment of technologies for these initiatives. Agencies that have 75% of the technologies supportive of the initiative are categorized as high, agencies with 40% to 75% are considered medium and agencies with less than 40% of the technologies are low. Technologies and practices related to United We Ride are currently used the least in both large and small metro areas. For the other initiatives, a higher percentage of large metro area than small metro transit agencies have deployment in the high or medium categories.

Figure 2-1. Large and small metro agency deployment status by FTA priority



For each initiative, a description is provided of what it is and the technologies that support it. This description is followed by a summary of deployment, and plans.

2.1.1 Regional architecture development and planning

On April 8, 2001, FTA issued the National ITS Architecture Consistency Policy for Transit Projects. The policy is intended to support the integration of ITS from a national and regional perspective. A key requirement of the Policy is that all regions that implement ITS must have a Regional ITS Architecture by April 8, 2005, or within 4 years of implementing an ITS project.¹ This summary indicates how many agencies had a regional ITS architecture complete or in progress in 2004.

¹ FTA Dear Colleague letter number C-01-03,
http://www.fta.dot.gov/legal/guidance/dear_colleague/2003/178_1044_ENG_HTML.htm

Although regional architecture development and planning is the most commonly adopted of the initiatives, half of the survey respondents from small metro areas and a third of respondents from large metro areas were unaware of the development of a regional architecture in their area. Overall, only a fifth of transit agencies reporting to the NTD are aware of a completed ITS architecture in their region.

Table 2-1 contains the 2004 survey results for regional architecture development and planning. Individual agency status is noted under ITS Integration in the tables in Sections 3 and 4.

Table 2-1. Regional architecture development and planning

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Completed	55	49	104
In Progress	71	113	184
Unaware	63	165	228

2.1.2 United We Ride aspects and supporting technologies

United We Ride is an effort to better coordinate the transportation services funded by the 62 federal programs that fund transportation services. The goal is to break down the barriers between programs and set the stage for local partnerships.²

Technologies supportive of United We Ride include:

- Multimodal/multicarrier advanced traveler information systems (ATIS) with other transit systems
- Multimodal/multicarrier ATIS with traffic information
- Coordinated billing with social service agencies
- Coordinated travel requests with multiple agencies
- Technology to coordinate rail, bus and demand responsive services

This initiative has the least amount of deployed ITS. There is no significant difference in adoption between large and small metro areas. Overall, about 70% of agencies have low deployment of the supportive technologies. Most of the remainder have medium levels of deployment.

² <http://www.fta.dot.gov/CCAM/www/index.html>

Table 2-2 contains the 2004 survey results for deployment of technologies supportive of United We Ride.

Table 2-2. Deployment of technologies supportive of United We Ride

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
High	4	4	8
Medium	61	88	149
Low	124	235	359

Table 2-3 contains the 2004 survey results for plans to deploy by 2005 technologies supportive of United We Ride. These plans are categorized independent of the current deployment level of the agencies. About the same number of agencies are in the high plans category as are in the high deployment category, but fewer have medium level plans than medium deployment. The low category also includes agencies with no plans or deployment.

Table 2-3. Plans to deploy by 2005 technologies supportive of United We Ride

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
High	6	5	11
Medium	47	51	98
Low	136	271	407

2.1.3 Security

FTA has undertaken an aggressive nationwide security program including risk and vulnerability assessments, technical assistance teams to help strengthen security and emergency preparedness plans, and emergency response drills conducted in conjunction with local fire, police, and emergency responders.³ In addition to these activities, there are a variety of technologies that support improved security on transit.

Technologies supportive of security include:

³ <http://transit-safety.volpe.dot.gov/>

- Buses equipped with security devices
- Rail vehicles equipped with security devices
- Rail stations equipped with security devices
- Electronic ID cards for employees
- Direct communication with public safety agencies

Security technologies are more common in large metro areas than small ones. About a quarter of transit agencies in large metro areas have a high level of deployment, while 11% of agencies in small metro areas have that level.

Table 2-4 contains the 2004 survey results for security technologies.

Table 2-4. Deployment of security technologies

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
High	50	35	85
Medium	57	89	146
Low	82	203	285

2.1.4 Ridership supportive technologies or practices

Increasing ridership is a high priority. Technologies potentially supportive of ridership include:

- Electronic fare payment data used in route and service planning
- Electronic fare payment interoperability with other transit agencies
- Vehicles equipped with automatic vehicle location
- Vehicles equipped with automatic passenger counters
- Advanced traveler information systems

Technology to support ridership is the most commonly adopted category of technology for both large and small metro areas. A higher percentage of agencies have medium levels of deployment than high, but for large metro areas, about three quarters of agencies have either medium or high levels of deployment of these technologies. In small metro areas, only 6% have a high level of deployment, but 44% have deployed enough technologies to fall in the medium deployment category.

Table 2-5 contains the 2004 survey results for technologies supportive of ridership.

Table 2-5. Deployment of technologies supportive of ridership

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
High	48	20	68
Medium	92	143	235
Low	49	164	213

Table 2-6. Plans to deploy by 2005 technologies supportive of ridership

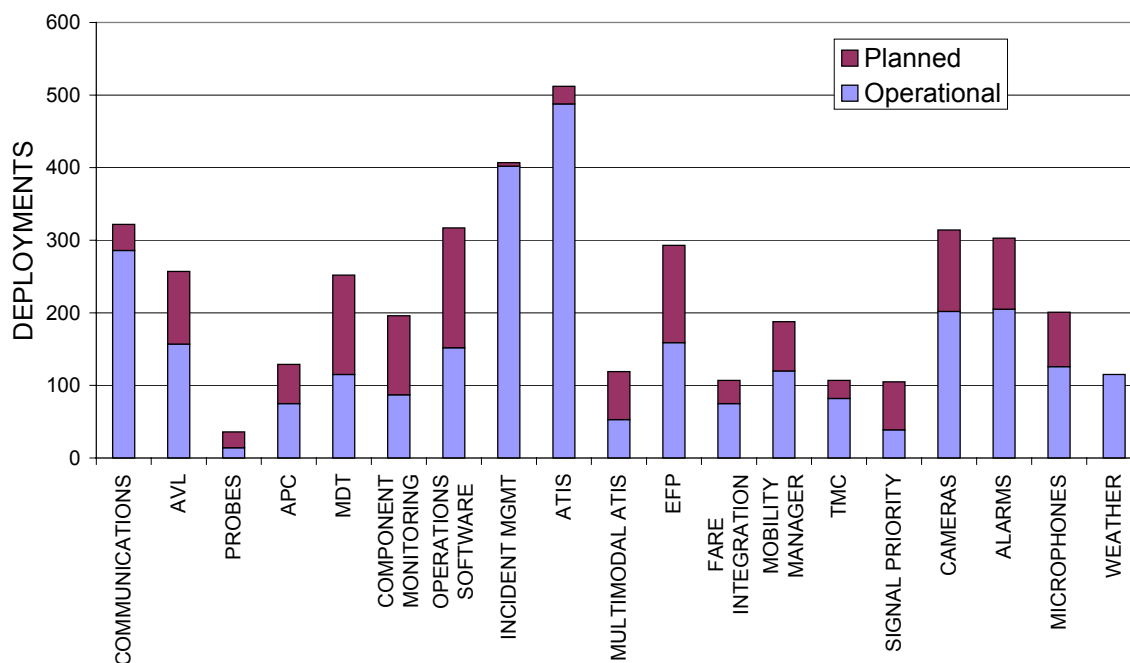
	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
High	0	2	2
Medium	51	47	98
Low	138	278	416

Plans to deploy technologies supportive of ridership are significantly lower than the current deployment. Since these technologies have been used for a number of years already, a number of agencies have already completed deployment, and therefore do not have plans for additional deployment.

2.2 Individual technology summaries

Summary statistics for deployment of 19 APTS elements are shown in this section. (See Appendix A for definitions of these elements as used in this report.) Figure 2-2 displays the number of responding transit agencies with operational and planned, expected to be operational by 2005, deployments of the 19 APTS elements.

Figure 2-2. Technology deployment and plans



Technologies with high deployment and low plans tend to be technologies that automate or improve on existing transit functions, rather than introduce new ways of operating. These technologies include Advanced Traveler Information Systems (ATIS), participation in formal incident management programs, advanced communications, and to a lesser extent some of the security technologies, such as cameras and silent alarms. An exception to this pattern is automatic passenger counters (APC), which has moderate deployment and plans.

Technologies with low deployment tend to be those that require coordination with highway or traffic agencies. These technologies include signal priority, use of transit vehicles as traffic probes, and multimodal ATIS.

Technologies designed to facilitate improved operations and increased efficiency generally have low to moderate levels of deployment and plans. These technologies may require changes in agency processes to achieve their benefits, making them somewhat more difficult to adopt. They include AVL, Mobile Data Terminals (MDT), component monitoring, operations software, electronic fare payment, and the role of mobility manager.

Deployment of each technology is discussed in detail in the following sections.

2.2.1 Advanced communications

Advanced communications encompasses digital and trunked radio systems as opposed to analog and non-trunked systems. The technologies also address regional cooperation, such as interoperability with public safety agencies.

Table 2-7 contains the 2004 deployment survey results. Figure 2-3 and Table 2-8 show the survey to survey period changes in deployments.

Table 2-7. Advanced communications 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	105	181	286
Planned	21	15	36
Technology			
Trunked Only	50	68	118
Digital Only	23	43	66
Trunked and Digital	34	70	104
Update plans			
To a digital system	19	21	40
To a dedicated 800 MHz system	24	16	40
To an area wide 800 MHz system	26	22	48
No updates planned	102	233	335
Communication with public safety agencies			
Dedicated radio channel	35	69	104
Partner in a joint interoperable system	30	41	71
No direct means	98	196	294
Plans for interoperability with public safety agencies			
Will use a communication switch	10	18	28
Will become part of an area wide interoperable system	54	61	115
No plans	98	204	302

Figure 2-3. Advanced communications deployment and plans

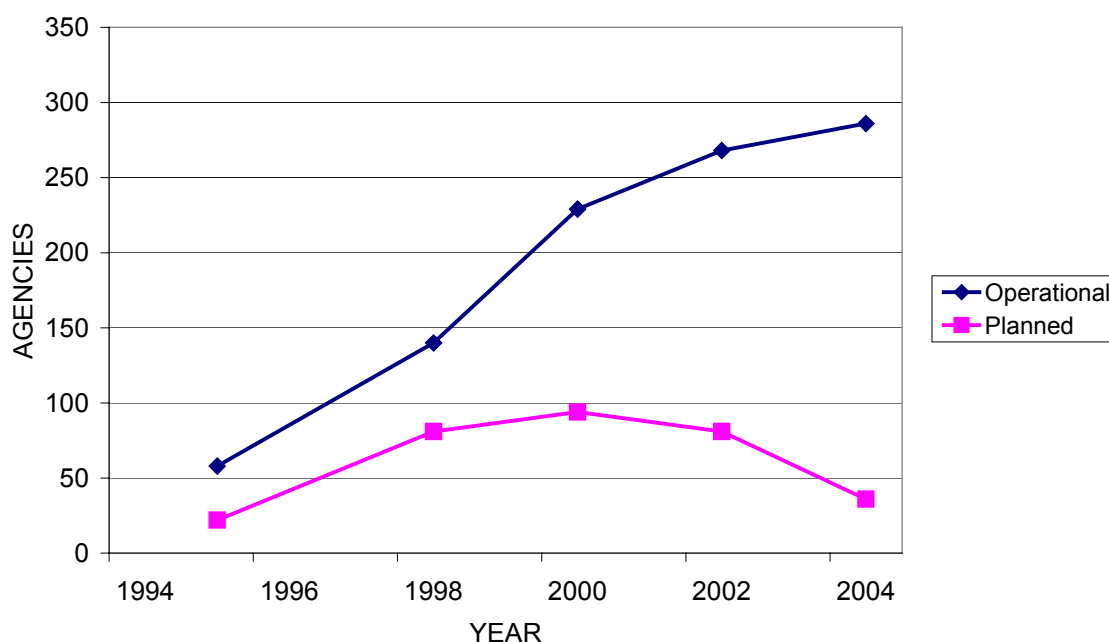


Table 2-8. Percent change in deployment and plans for advanced communications

	1995-1998	1998-2000	2000-2002	2002-2004	1995-2004
Operational	141%	64%	17%	7%	393%
Planned	268%	16%	-14%	-56%	64%
Total	176%	46%	8%	-8%	303%

Through 2002, advanced communications technology deployment and plans increased each year and was deployed faster than agencies reported that they planned. By 2004, more than half of all agencies surveyed had advanced communications. The 2004 data show for the first time a decline in the total number of operational or planned systems, as a result of slower adoption and fewer agencies planning to deploy a system in 2005.

Those agencies planning to update their systems are relatively evenly divided among deployment of a digital system, a dedicated 800 MHz system, and an area wide 800 MHz system. Some survey respondents commented that there were other technologies that they were planning as well.

Communication with public safety agencies is accomplished more by dedicated radio channel than by partnership in a joint interoperable system, although more than half of agencies surveyed have no direct means of communication. Plans for interoperability are more common in the 78 largest metropolitan areas than in smaller metro areas as a result of more transit agency plans in larger metro areas to become part of an area wide interoperable system.

2.2.2 AVL

Automatic Vehicle Location (AVL) is the determination of a vehicle's position using technologies such as Global Positioning System (GPS), Signposts, Ground-Based Radio, or Dead-Reckoning. Previous surveys revealed that GPS is the overwhelming method of choice for new installations. Even some agencies that had installed other methods are upgrading to GPS.

Table 2-9 contains the 2004 deployment survey results. Figure 2-4 and Table 2-10 show the survey to survey period changes in deployments.

Table 2-9. AVL 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	90	67	157
Planned	35	65	100
Service Type Totals			
Fixed Route	74	48	122
Heavy Rail	5	0	5
Light Rail	8	0	8
Demand Response	47	44	91
Commuter Rail	2	0	2
Ferry	1	1	2

Figure 2-4. AVL deployment and plans

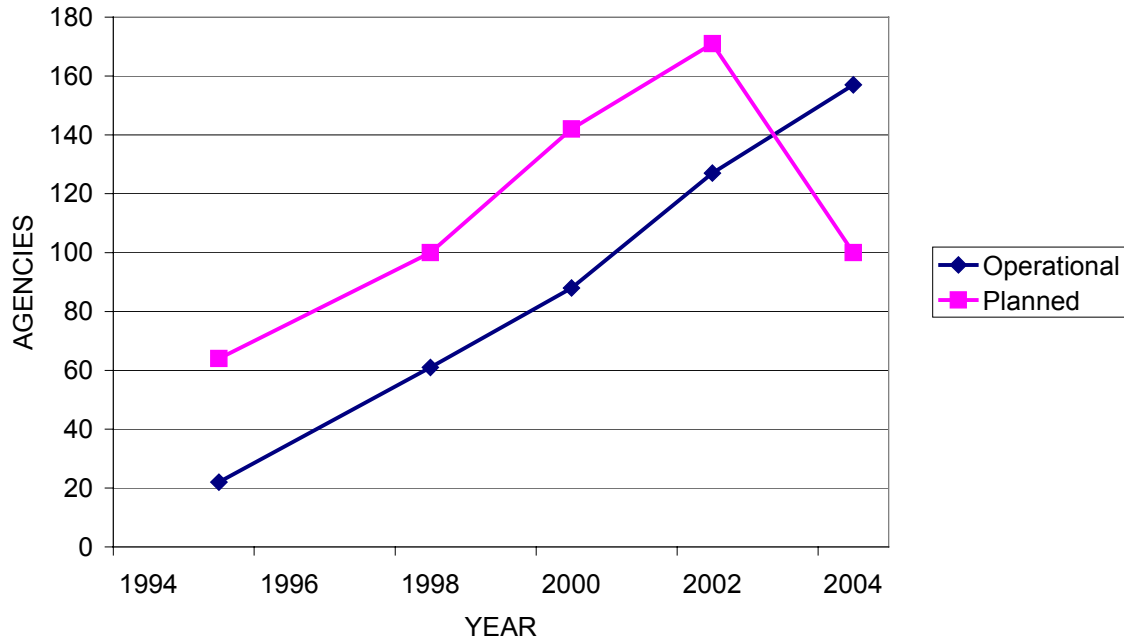


Table 2-10. Percent change in AVL deployment and plans

	1995-1998	1998-2000	2000-2002	2002-2004	1995-2004
Operational	177%	44%	44%	24%	614%
Planned	56%	42%	20%	-42%	56%
Total	87%	43%	30%	-14%	199%

AVL deployment continues to increase steadily, despite a drop in plans for new deployments. 2004 is the first year in which agencies with deployed AVL exceeds agencies with plans. About half of all agencies have either deployment or plans, with a higher percentage of deployment in the larger urban areas and roughly equivalent percentages with plans across both categories of metro areas.

AVL is most commonly used on fixed route buses and demand responsive vehicles. There is some use on rail in the large metro areas.

2.2.3 Vehicle probes

A Vehicle Probe is an AVL-equipped vehicle that is used to provide information for the calculation of travel times and speeds on roadway facilities.

Table 2-11 contains the 2004 deployment survey results. Figure 2-5 and Table 2-12 show the survey to survey period changes in deployments.

Table 2-11. Vehicle probe 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	9	4	13
Planned	9	13	22
Location			
Freeway Only	2	0	2
Arterial Only	4	2	6
Freeway & Arterial	3	2	5

Figure 2-5. Vehicle probe 2004 deployment and plans

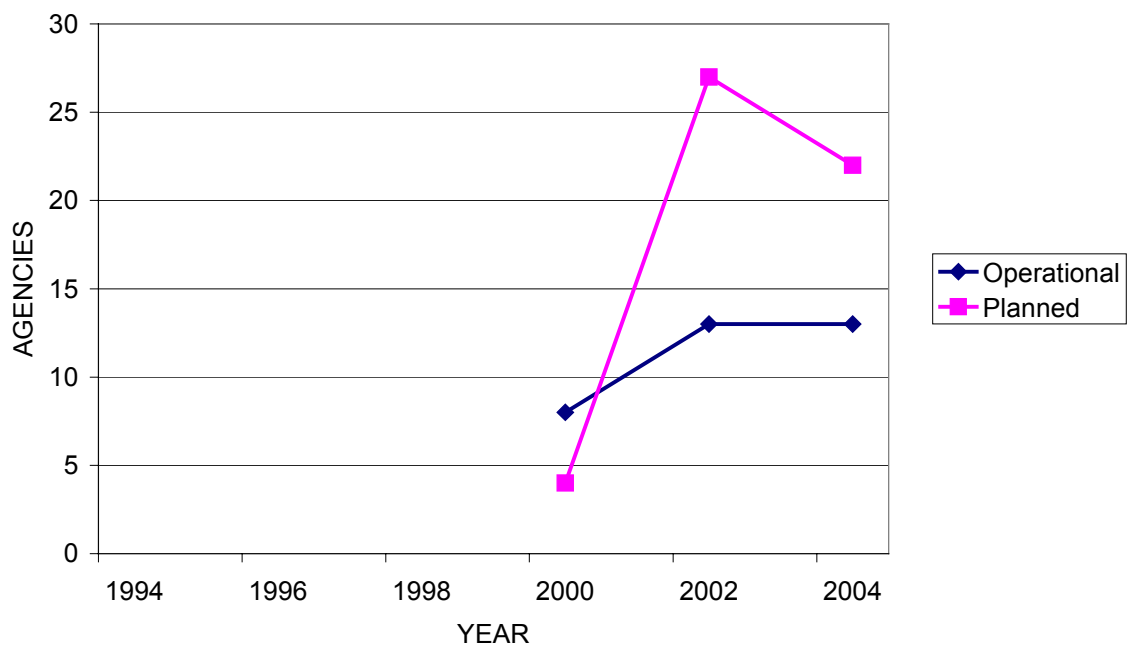


Table 2-12. Vehicle probe percent change in deployment and plans

	2000-2002	2002-2004	2000-2004
Operational	63%	0%	63%
Planned	575%	-19%	450%
Total	233%	-13%	192%

Plans for vehicle probe deployment continue to exceed existing deployments, although between 2002 and 2004 many agencies scaled back their plans to more realistic levels. Probes remain the least common ITS technology of the technologies surveyed. High growth rates are a result of a low base rather than large absolute increases in agencies using probes. A higher percentage of agencies in large metro areas have deployed probes than in small metro areas.

2.2.4 APC

Automatic Passenger Counters (APCs) are devices that count passengers as they enter and exit the transit vehicle or system. The most prevalent counting technology is infrared beams.

Table 2-13 contains the 2004 deployment survey results. Figure 2-6 and Table 2-14 show the survey to survey period changes in deployments.

Table 2-13. Automatic passenger counters 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	49	26	75
Planned	22	36	58
Service Type Totals			
Fixed Route	48	25	73
Heavy Rail	0	0	0
Light Rail	5	0	5
Demand Response	2	3	5
Commuter Rail	1	0	1
Ferry	0	2	2

Figure 2-6. Automatic passenger counters deployment and plans

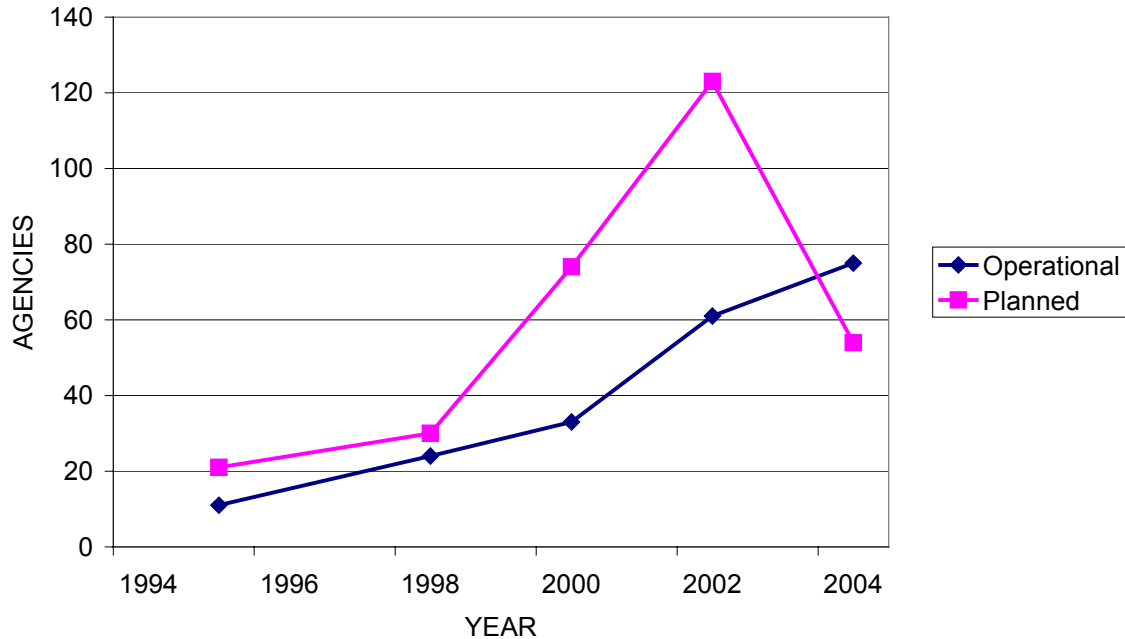


Table 2-14. APC percent change in deployment and plans

	1995-1998	1998-2000	2000-2002	2002-2004	1995-2004
Operational	118%	38%	85%	23%	582%
Planned	43%	147%	66%	-56%	157%
Total	69%	98%	72%	-30%	303%

Plans for APC dropped below deployment for the first time in 2004, as plans declined to their lowest level since 1998. Operational systems continue to rise. APC is most common in large metro areas. Equivalent percentages of agencies in large and small metro areas are planning to deploy the systems.

2.2.5 Mobile data terminals

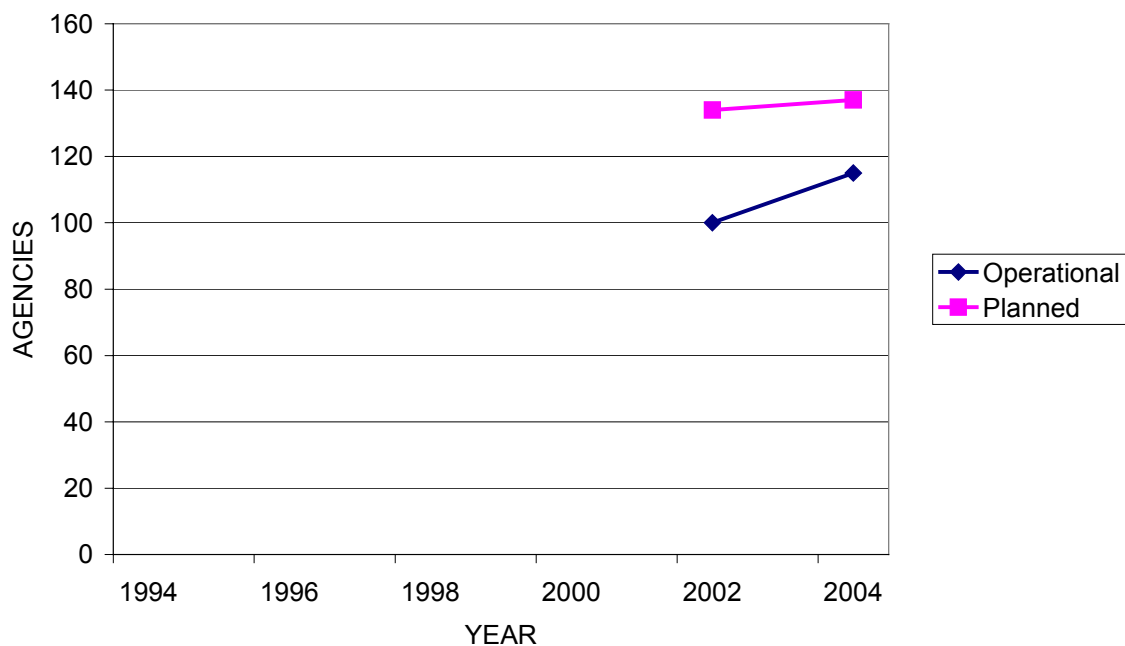
Mobile Data Terminals (MDTs) are wireless devices that can send and receive information over a wireless data network. MDTs typically have a small screen that displays messages sent by the dispatch center and a series of buttons that can be pushed to send preset messages to the dispatch center.

Table 2-15 contains the 2004 deployment survey results. Figure 2-7 shows the survey to survey period changes in deployments.

Table 2-15. Mobile data terminals 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	67	48	115
Planned	63	74	137
Service Type Totals			
Fixed Route	52	31	83
Heavy Rail	1	0	1
Light Rail	50	0	50
Demand Response	45	35	80
Commuter Rail	1	0	1
Ferry	0	1	1

Figure 2-7. Mobile data terminals deployment and plans



The number of agencies using mobile data terminals rose by 15% between 2002 and 2004. The number of agencies planning to use MDT increased by 2%. A higher percentage of agencies in large metro areas use MDT. Mobile data terminals are most common on fixed route buses, light rail and demand response.

2.2.6 Vehicle component monitoring

Vehicle Component Monitoring is the remote collection, in real time, of vehicle conditions such as engine temperature, oil pressure, tire pressure, etc.

Table 2-16 contains the 2004 deployment survey results. Figure 2-8 and Table 2-17 show the survey to survey period changes in deployments.

Table 2-16. Vehicle component monitoring 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	50	37	87
Planned	49	60	109
Service Type Totals			
Fixed Route	38	30	68
Heavy Rail	3	0	3
Light Rail	3	1	4
Demand Response	20	19	39
Commuter Rail	4	0	4
Ferry	1	0	1

Figure 2-8. Vehicle component monitoring 2004 deployment and plans

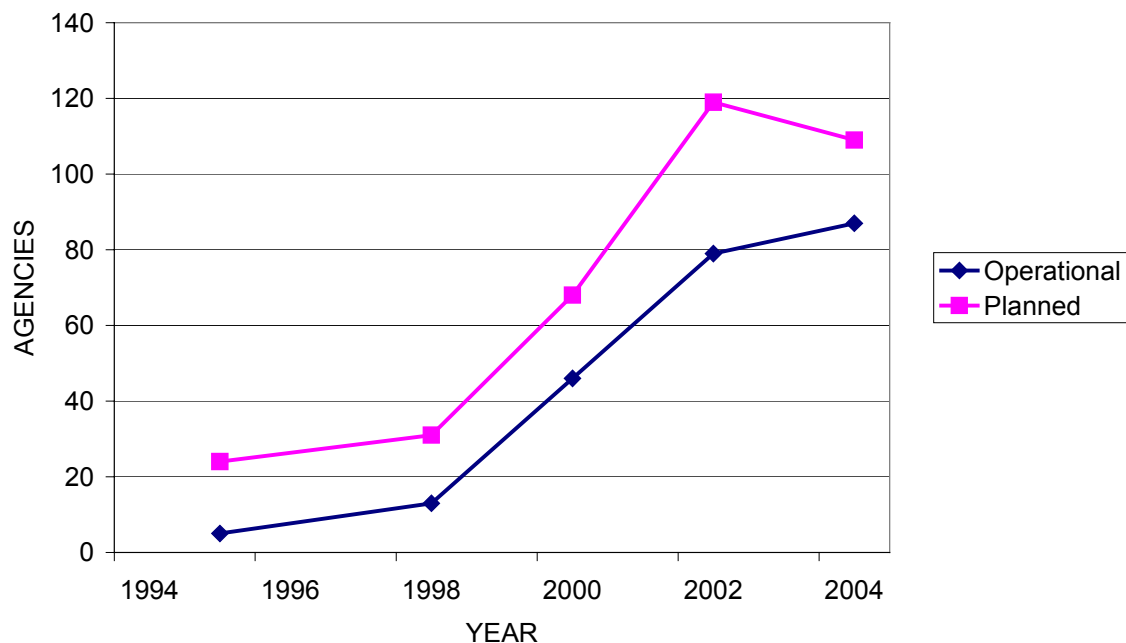


Table 2-17. Vehicle component monitoring percent change in deployment and plans

	1995-1998	1998-2000	2000-2002	2002-2004	1995-2004
Operational	160%	254%	72%	10%	1640%
Planned	29%	119%	75%	-8%	354%
Total	52%	159%	74%	-1%	576%

Vehicle component monitoring saw the greatest growth of any of the technologies between 1995 and 2004, with a 1640% increase in deployment. This increase translates into an average annual growth rate of 31%. Most of the increase occurred between 1998 and 2002, with a leveling off of deployments and a decrease in plans between 2002 and 2004.

Like many other technologies, vehicle component monitoring is more common in large metro areas. There is less of a difference in plans between agencies in large and small metro areas, although agencies in large areas are more likely to plan deployment.

2.2.7 Automated operations software

Automated Operations Software encompasses computer programs that collect, process, and/or analyze real-time operational information in ways that will assist transit agencies in providing improved service or in reducing service cost.

The agency responses to the 2002 survey question regarding Automated Operations Software were inconsistent with results from the 2000 survey. Based upon the premise that the more recent information submitted online would be more reliable than previous survey information obtained over the telephone, the number of operational systems were clearly overstated for 2000. Consequently, the 2002 responses were used to recompute the 2000 summary statistics in instances in which agencies claimed to have had Automated Operations Software in 2000 but who in 2002 indicated they either do not have Automated Operations Software or will have it by 2005. On that basis, the year to year comparison appears reasonable.

Table 2-18 contains the 2004 deployment survey results. Figure 2-9 and Table 2-19 show the survey to survey period changes in deployments.

Table 2-18. Automated operations software 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516

Status			
Operational	87	65	152
Planned	77	88	165
Service Type Totals			
Fixed Route	62	28	90
Heavy Rail	6	0	6
Light Rail	7	1	8
Demand Response	62	53	115
Commuter Rail	4	0	4
Ferry	0	1	1

Figure 2-9. Automated operations software deployment and plans

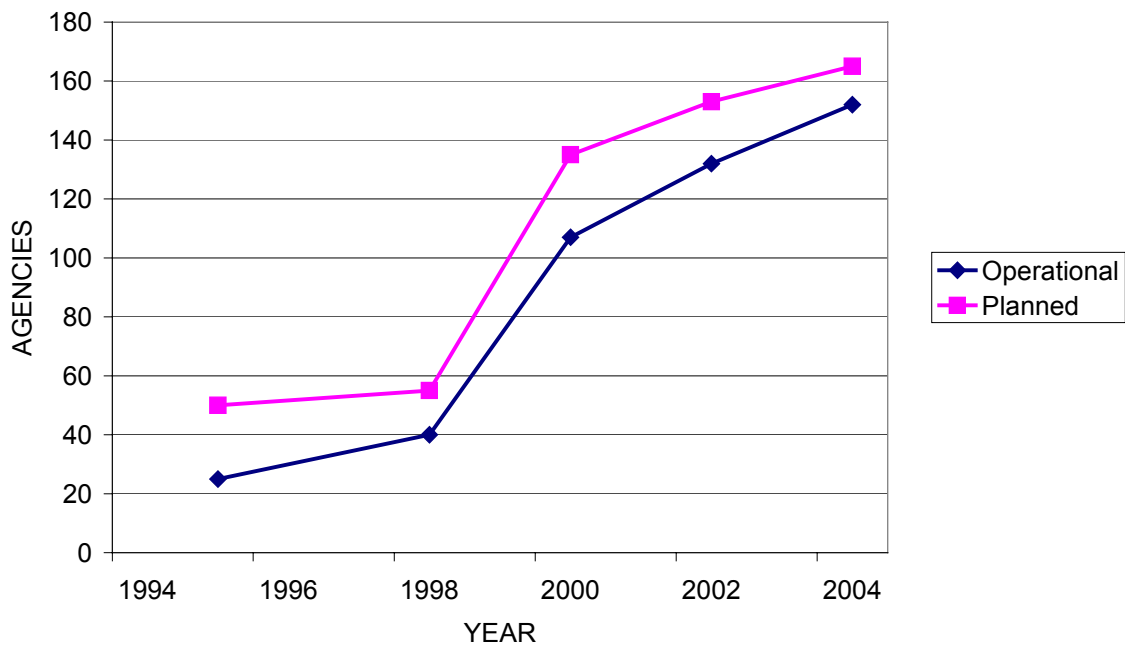


Table 2-19. Automated operations software percent change in deployment and plans

	1995-1998	1998-2000	2000-2002	2002-2004	1995-2004
Operational	60%	168%	23%	15%	508%
Planned	10%	145%	13%	8%	230%
Total	27%	155%	12%	17%	323%

Automated operations software continues to become more common, both in terms of operational systems and plans. Nearly half of agencies in large metro areas use the technology, and about a fifth of agencies in small metro areas. Plans for deployment

continue to exceed actual deployments. How realistic the plans are, however, is unclear since the plans exceed the trend in new deployments.

2.2.8 Organized regional incident management program

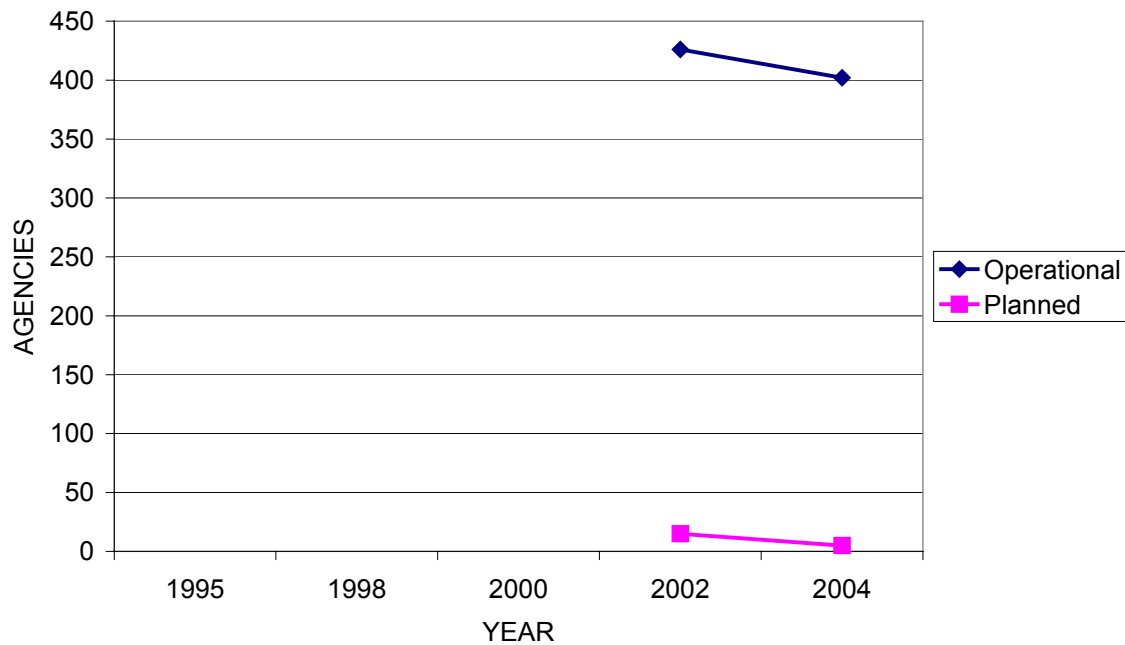
Organized regional incident management programs can involve transit agencies by making arrangements for the agencies' operators or dispatchers to report traffic incidents, such as stalled vehicles or crashes. Agencies can also participate in statewide disaster planning programs.

Table 2-20 contains the 2004 deployment survey results. Figure 2-10 shows the survey to survey period changes in deployments.

Table 2-20. Organized regional incident management program 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	152	290	442
Planned	3	2	5
Program Type Totals			
Report traffic incidents only	45	147	192
Participate in statewide disaster planning only	30	10	40
Both report traffic incidents and participate in statewide disaster planning	77	133	210

Figure 2-10. Organized regional incident management program deployment and plans



Participation in organized regional incident management programs stayed relatively constant between 2002 and 2004. Although the absolute numbers declined, the percentage of survey respondents participating increased somewhat. In the 78 largest metropolitan areas, it is most common to both report traffic incidents and participate in statewide disaster planning. Agencies in smaller metropolitan areas are most likely to only report traffic incidents. Their propensity to report traffic incidents explains the higher overall percentage of participation in regional incident management programs, since they are much less likely to only participate in statewide disaster planning.

2.2.9 Automated transit information

Automated Transit Information as defined for this report is any method of disseminating to the public, without human involvement, a minimum of route, schedule, and fare information for fixed route service and service area, service hours, and fare information for demand responsive service. Some agencies also provide trip planning, and/or real-time schedule adherence or arrival information by automated means. Distribution methods can include automated telephone (including 511 systems) and cellular phone, Internet Web Site, television, pagers, personal digital assistants, kiosks, e-mail, personal computer communications, automated announcements and variable message signs inside and outside transit vehicles, and monitors at stops or stations. These have been arranged as pre-trip, wayside, and in-vehicle systems for presentation purposes in the tables in Sections 3 and 4.

Table 2-21 contains the 2004 deployment survey results. Figure 2-11 and Table 2-22 show the survey to survey period changes in deployments.

Table 2-21. Automated transit information systems 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	183	305	488
Planned	6	18	24
Service Type Totals			
Fixed Route	54	140	194
Heavy Rail	8	0	8
Light Rail	13	3	16
Demand Response	22	79	101
Commuter Rail	5	1	6
Ferry	4	3	7
Location			
Pre-Trip	175	287	462
Wayside	136	152	288
In-Vehicle	70	84	154

Figure 2-11. Automated transit information systems deployment and plans

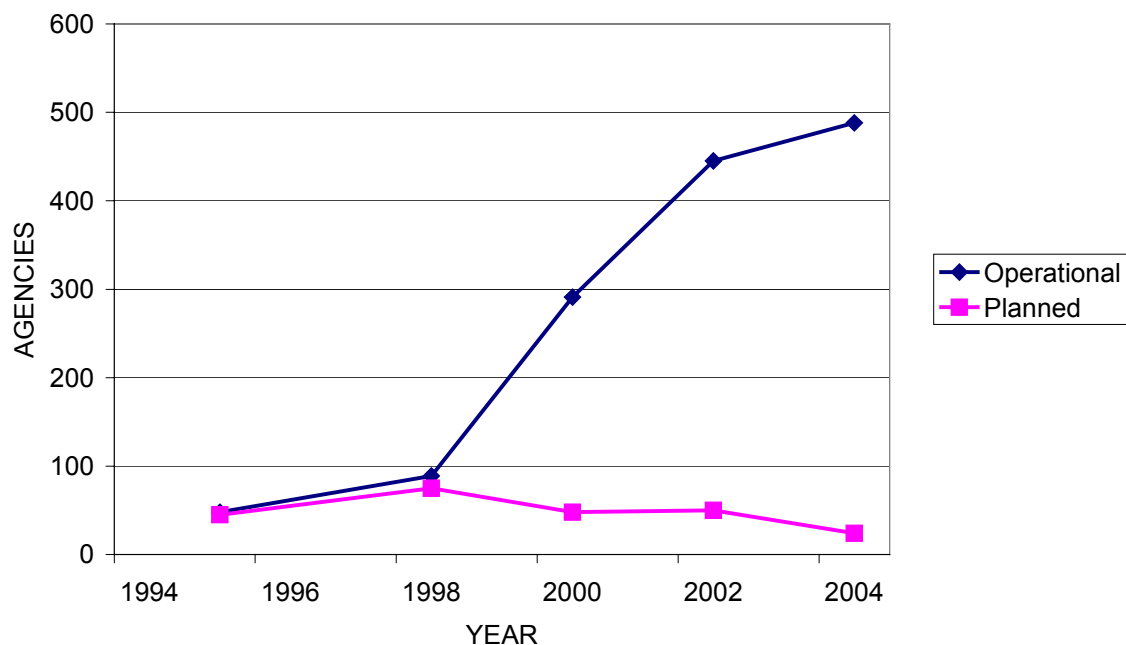


Table 2-22. Automated transit information systems percent change in deployment and plans

	1995-1998	1998-2000	2000-2002	2002-2004	1995-2004
Operational	85%	227%	53%	10%	917%
Planned	67%	-36%	4%	-52%	-47%
Total	76%	107%	46%	3%	451%

From 1998 through 2002, ATIS deployment dramatically increased. Between 2002 and 2004, the increase in operational systems slowed, and the plans continued to decline. Since almost all agencies now have an ATIS system, the decline in plans is not surprising. Pre-trip information systems, such as websites or automated telephone systems, are the most common. Next most common is wayside systems, which range from kiosks to variable message signs or automated telephone systems. Least common, despite ADA requirements, are in-vehicle systems, such as audible enunciators.

2.2.10 Multimodal traveler information

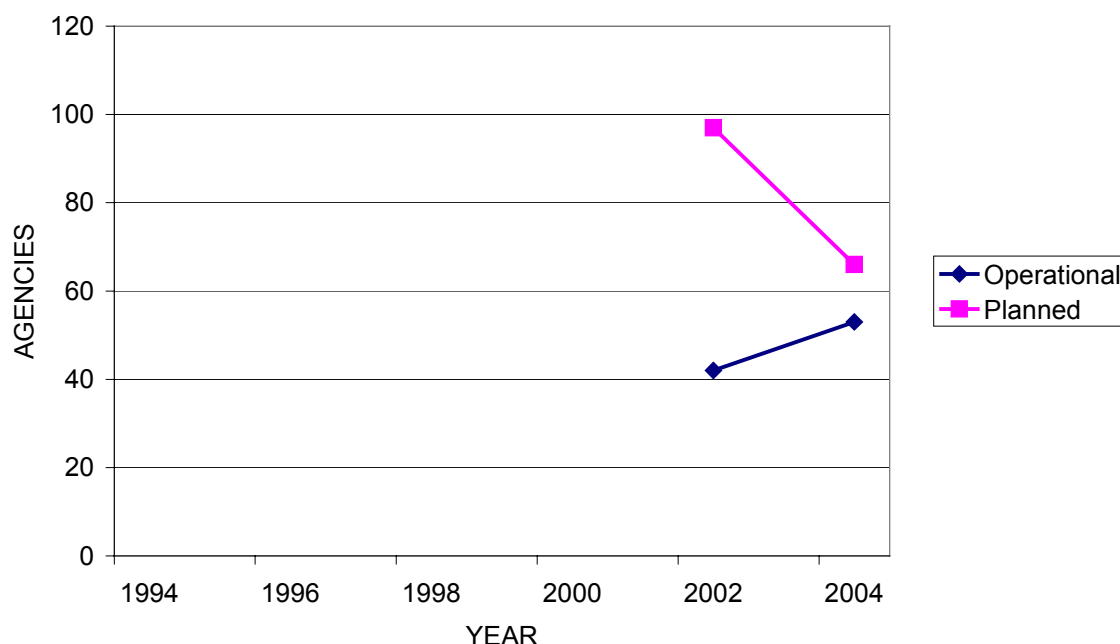
Multi-Modal Traveler Information is information presented to the public via a distribution medium which also includes information on other transit agencies' services or other transportation modes.

Table 2-23 contains the 2004 deployment survey results. Figure 2-12 shows the survey to survey period changes in deployments.

Table 2-23. Multimodal traveler information 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	30	23	53
Planned	42	24	66
Mode			
Transit only	13	12	25
Highway only	4	2	6
Transit & Highway	12	9	21

Figure 2-12. Multimodal traveler information deployment and plans



Plans for multimodal traveler information systems dropped by almost a third between 2002 and 2004, although they still exceed the operational systems. Agencies in large metro areas are more likely to participate in a multimodal system. These metropolitan areas are more likely to have potential partners because the traffic and highway agencies are more likely to have their own single mode information systems, and there are more likely to be multiple transit agencies for a multiagency transit information system. These multiagency systems are more common than the multimodal systems including highway or traffic agencies.

2.2.11 Electronic fare payment

Electronic Fare Payment (EFP) consists of payment schemes by which riders pay for trips through a monthly pass, by having the fare for trips deducted from a stored value magnetic stripe or smart card, or by a credit card.

Table 2-24 contains the 2004 deployment survey results. Figure 2-13 and Table 2-25 show the survey to survey period changes in deployments.

Table 2-24. Electronic fare payment 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
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Transit Agency Totals	189	327	516
Status			
Operational	92	67	159
Planned	69	65	134
Service Type Totals			
Fixed Route	76	67	143
Heavy Rail	10	0	10
Light Rail	9	0	9
Demand Response	18	24	42
Commuter Rail	2	0	2
Ferry	1	0	1

Figure 2-13. Electronic fare payment 2004 deployment and plans

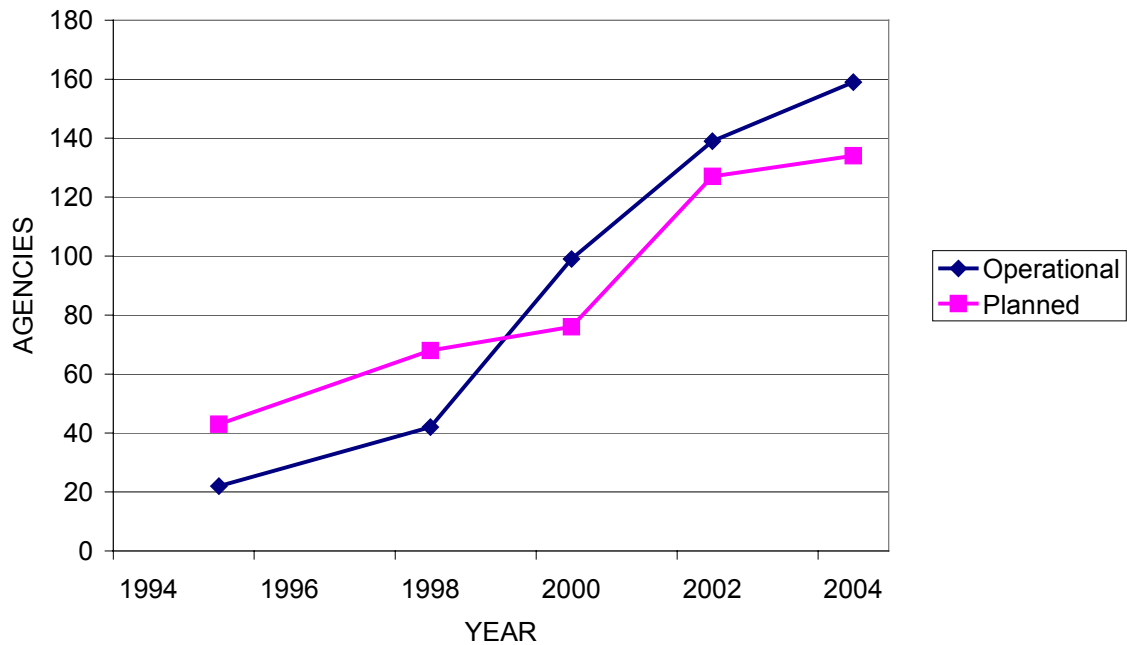


Table 2-25. Electronic fare payment percent change in deployment and plans

	1995-1998	1998-2000	2000-2002	2002-2004	1995-2004
Operational	91%	136%	40%	14%	623%
Planned	58%	12%	67%	6%	212%
Total	69%	59%	52%	10%	351%

The rate of increase in deployment and plans for electronic fare payment has declined in the last two years. A little more than half of urban transit agencies either have an

operational system or plans, with the technology more common in large metro areas than small ones.

2.2.12 Multi-carrier fare integration

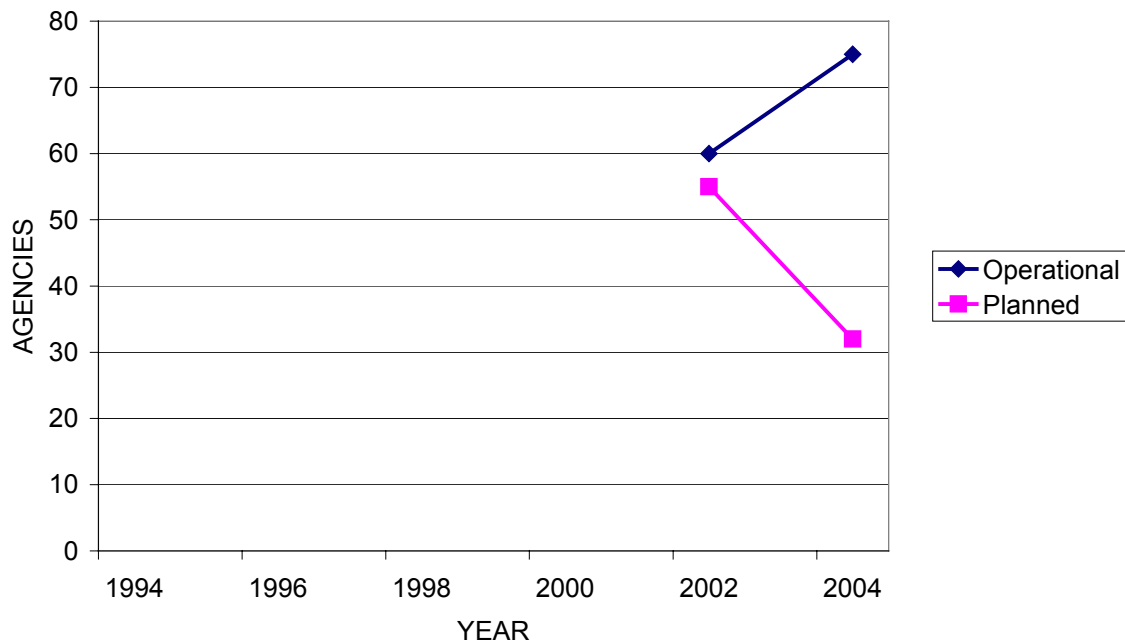
Multi-Carrier Fare Integration consists of two or more transit agencies on which the same electronic payment media can be used to pay fares. Integration can also include electronic toll collection media that can be used to pay for transit fares, or coordinated billing with social service agencies.

Table 2-26 contains the 2004 deployment survey results. The totals presented under “Status” include all three types of integration. Figure 2-14 shows the survey to survey period changes in deployments for integration among transit agencies.

Table 2-26. Multi-carrier fare integration 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	105	166	271
Planned	22	11	33
Operational Integration Type Totals			
With other transit agencies	48	27	75
With toll collection operators	21	8	29
With social service agencies	65	146	211
Planned Integration Type Totals			
With other transit agencies	22	10	32
With toll collection operators	4	2	6

Figure 2-14. Multicarrier fare integration deployment and plans



Multicarrier fare integration among transit agencies is much more common in large metro areas than small ones. Integration with social service agencies is more common in the small metro areas. Operational fare integration among transit agencies has increased by 25% between 2002 and 2004.

2.2.13 Mobility manager

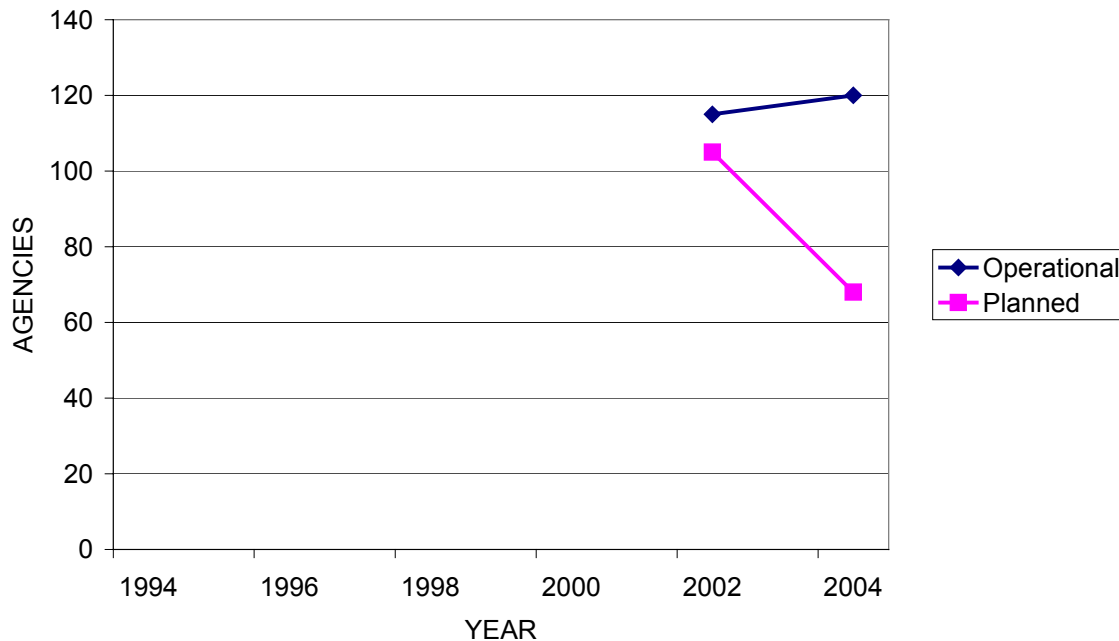
Transit agencies that handle the travel requests or the dispatching of vehicles for multiple agencies (e.g., social service agencies, Health and Human Service agencies, other transit agencies, etc.) are considered Mobility Managers.

Table 2-27 contains the 2004 deployment survey results. Figure 2-15 shows the survey to survey period changes in deployments.

Table 2-27. Mobility manager 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	34	86	120
Planned	30	38	68

Figure 2-15. Mobility manager deployment and plans



Like fare integration with social services agencies, mobility manager roles are more common among transit agencies in smaller metro areas. Agencies in large metro areas have more plans to start taking on that role. More agencies overall are acting as mobility managers in 2004, but plans for additional agencies to do so have dropped by about a third.

2.2.14 Transportation management centers

A Transportation Management Center (TMC) is a facility that houses personnel that control both transit vehicles and highway vehicles or equipment (e.g., transit vehicles, incident management vehicles, traffic signals, variable message signs, etc.).

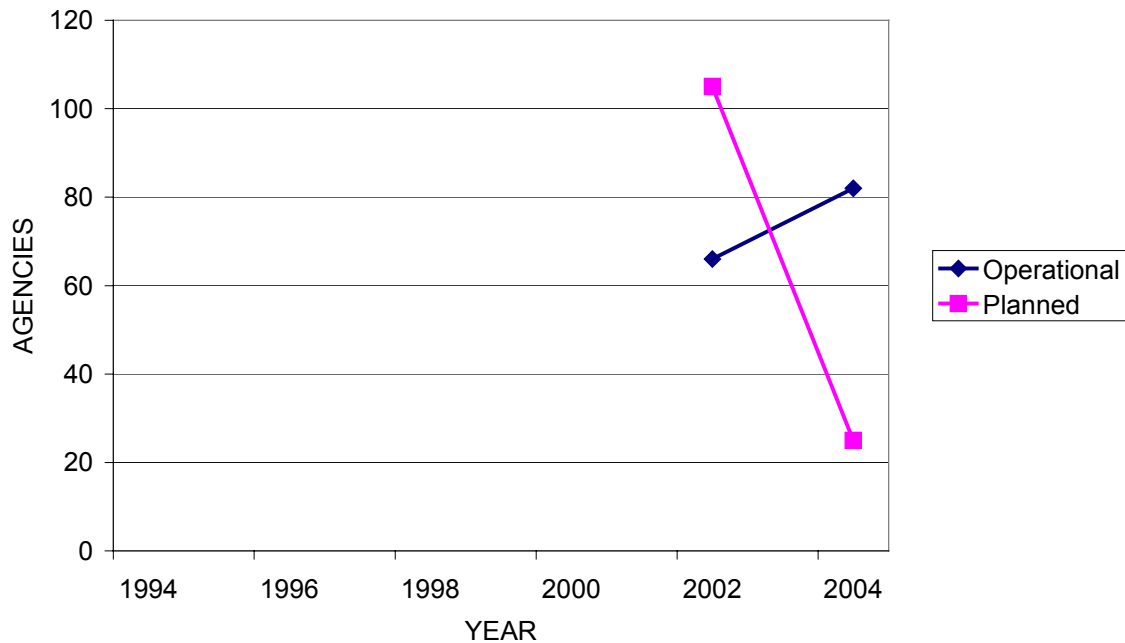
Table 2-28 contains the 2004 deployment survey results. Figure 2-16 shows the survey to survey period changes in deployments.

Table 2-28. Transportation management centers 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	53	29	82

Planned	10	15	25
---------	----	----	----

Figure 2-16. Transportation management centers deployment and plans



Operational transportation management centers increased somewhat between 2002 and 2004, although plans for additional ones dropped dramatically. Both operational and planned TMCs are more prevalent in large metro areas.

2.2.15 Traffic signal and ramp meter priority

Traffic Signal Priority systems are those signal systems that provide an advanced or extended green signal phase for approaching transit vehicles that request priority.

Table 2-29 contains the 2004 deployment survey results. Figure 2-17 and Table 2-30 show the survey to survey period changes in deployments.

Table 2-29. Traffic signal and ramp meter priority 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	27	12	39
Planned	32	34	66

Service Type Totals			
Fixed Route	21	11	33
Light Rail	12	1	13
Demand Response	2	0	2

Figure 2-17. Traffic signal and ramp meter priority deployment and plans

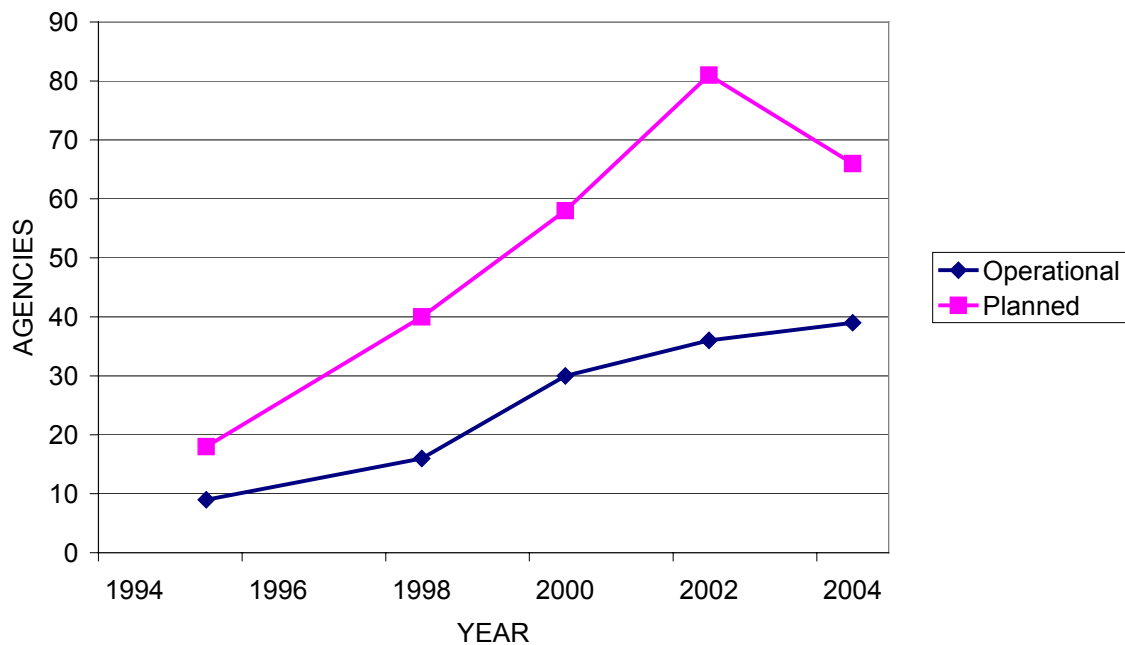


Table 2-30. Traffic signal and ramp meter priority percent change in deployment and plans

	1995-1998	1998-2000	2000-2002	2002-2004	1995-2004
Operational	78%	88%	20%	8%	333%
Planned	122%	45%	40%	-19%	267%
Total	107%	57%	33%	-10%	289%

Traffic signal and ramp meter priority deployments have continued to increase, while plans for deployment have dropped off. Deployment of the technology remains at the second lowest level of the technologies included in the survey. Most deployments are traffic signal, rather than ramp meter priority.

2.2.16 Surveillance cameras

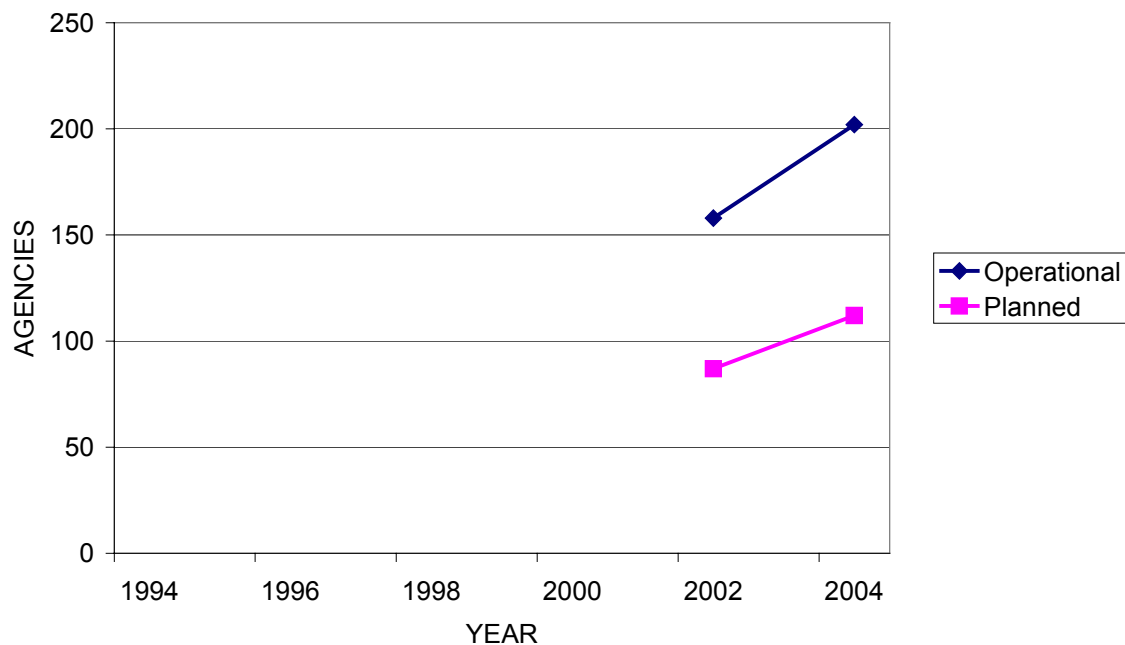
Surveillance Cameras have been placed on transit vehicles for the recording or real-time observation of on-board activities.

Table 2-31 contains the 2004 deployment survey results. Figure 2-18 shows the survey to survey period changes in deployments.

Table 2-31. Surveillance cameras 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	95	107	202
Planned	56	56	112

Figure 2-18. Surveillance cameras deployment and plans



Surveillance camera deployments and plans rose between 2002 and 2004. Deployment and plans are comparable to silent alarms and somewhat exceed the third security technology tracked, covert microphones.

2.2.17 Silent alarms

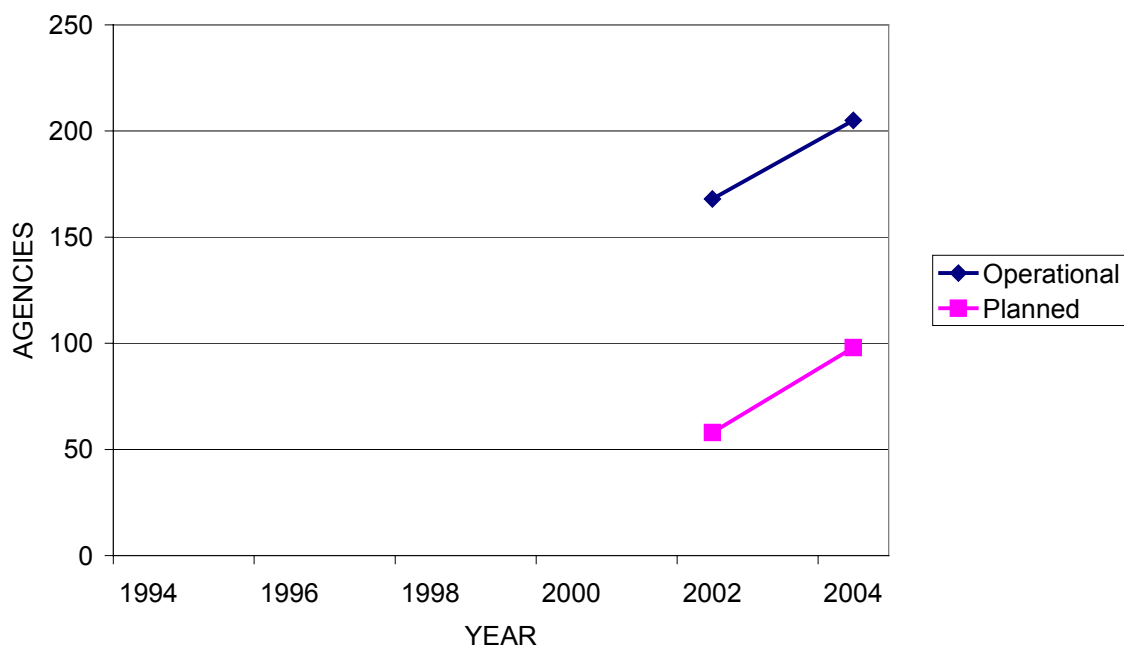
A Silent Alarm consists of a concealed button near the vehicle operator's position that can be pressed to send a signal to the dispatch center that an on-board emergency situation exists which prevents the operator from using the radio.

Table 2-32 contains the 2004 deployment survey results. Figure 2-19 shows the survey to survey period changes in deployments.

Table 2-32. Silent alarm 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	109	96	205
Planned	45	53	98

Figure 2-19. Silent alarm deployment and plans



Both deployments and plans for silent alarms increased between 2002 and 2004, with fewer new systems planned than the existing deployments. The plans appear realistic with almost as many agencies planning adoption of silent alarms in 2002 as actually deployed the technology between 2002 and 2004.

2.2.18 Covert microphones

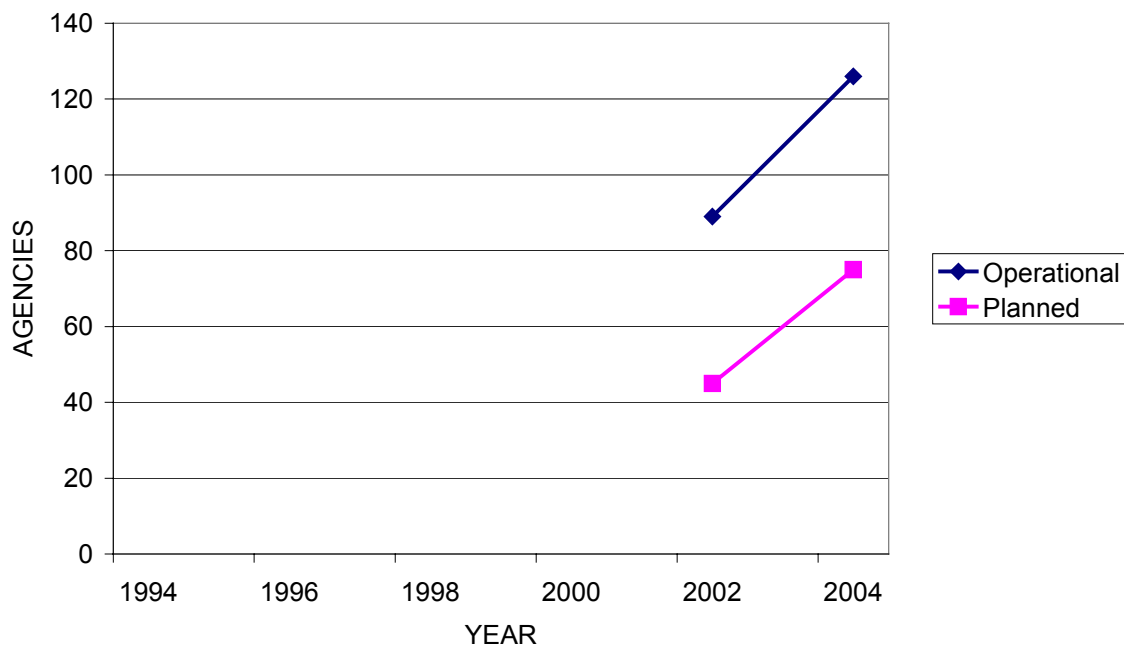
Covert Microphones are microphones that are hidden from public view which allow dispatchers to listen to what is happening on-board a transit vehicle after the vehicle operator has pressed the Silent Alarm button.

Table 2-33 contains the 2004 deployment survey results. Figure 2-20 shows the survey to survey period changes in deployments.

Table 2-33. Covert microphone 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	65	61	126
Planned	37	38	75

Figure 2-20. Covert microphone 2004 deployment and plans



Both deployments and plans for covert microphones increased between 2002 and 2004, with fewer new systems planned than the existing deployments. The plans appear realistic with about the same number of agencies planning adoption of covert microphones in 2002 as actually deployed the technology between 2002 and 2004.

2.2.19 Weather information

Weather information tailored to particular agency requirements may include current and forecast road conditions and weather information (e.g., surface condition, flooding, wind advisories, visibility, etc.) associated with the transportation network. This information is of a resolution, timeliness, and accuracy to be useful in transportation decision making. Transit agencies may request weather information and specify the area of interest (a geographic region, particular routes within a region, specific road segments), the type of information that is required, the desired spatial resolution of the information, and time horizon.

Table 2-34 contains the 2004 deployment survey results. Deployment information was collected for the first time in 2004, so no comparison with earlier years is available. The survey did not request information about plans for future deployment, so that information is also unavailable. Tailored weather information is used at similar rates in large and small metro areas. Just under a quarter of all urban transit agencies use this information.

Table 2-34. Weather information 2004 deployment and plans

	78 Largest Metropolitan Areas	Remainder of the United States	United States Total
Transit Agency Totals	189	327	516
Status			
Operational	39	76	115
Planned	N/A	N/A	N/A

3 APTS DEPLOYMENT BY TRANSIT AGENCY IN THE UNITED STATES' 78 LARGEST METROPOLITAN AREAS

Tables 3-1 and 3-2 present the information collected by the Oak Ridge/SAIC team for transit agencies residing in jurisdictions of 50,000 persons or more within the 78 largest metropolitan areas in the U.S. As indicated in the legend, entries enclosed by brackets signify elements either in the implementation or planning stage and are expected to be operational by the year 2005. All other entries indicate operational elements.

The agencies are arranged alphabetically, first by state abbreviation and then by agency name. The tables list the number of vehicles or vessels operated by each agency (directly or by contract) in each service type. Also, where possible and appropriate, the number of vehicles, vessels, stations, or terminals currently equipped with each APTS technology, or which will be so equipped by 2005, are included. Where numbers are not available or applicable, letters signify that the agency has deployed, or will deploy, that technology.

Table 3-1. Large metro area agency deployments of technologies

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Birmingham-Jefferson County Transit Authority	Birmingham	AL	Fixed Route Bus	77	[MS], [SC]	[X]	DIG, TR		[X]	[X]		X	X	
		AL	Demand Responsive	25	[SC]	[X]	DIG, TR		[X]	[X]		X	X	
Central Arkansas Transit Authority	North Little Rock	AR	Fixed Route Bus	65	MS		DIG, TR							
		AR	Demand Responsive	16			DIG, TR							
Glendale Dial-A-Ride	Glendale	AZ	Fixed Route Bus	8	MS	X	DIG, TR			X	X		X	
		AZ	Demand Responsive	18		X	DIG, TR			X	X		X	
Mesa City	Mesa	AZ	Fixed Route Bus	39	MS	[X]	DIG, TR		[X]		[X]	X		
Peoria Transit	Peoria	AZ	Demand Responsive	9		[X]	TR			[X]				
Phoenix Transit System	Phoenix	AZ	Fixed Route Bus	700	MS				X		X			
		AZ	Demand Responsive	220							X			
Sun Cities Area Transit System	Sun City	AZ	Demand Responsive	14		[X]	TR				[X]			
Sun Tran	Tucson	AZ	Fixed Route Bus	185	MS	X	[DIG], TR		X	X	X			[X]
Surprise Dial-A-Ride	Surprise	AZ	Demand Responsive	3			DIG, TR							
VanTran	Tucson	AZ	Demand Responsive	99		X					X	X	X	
Access Services Incorporated	Los Angeles	CA	Demand Responsive	470	MS		DIG				X			
Alameda Ferry Services	Alameda	CA	Ferry Boat	4		[X]	DIG							
Antelope Valley Transit Authority	Lancaster	CA	Fixed Route Bus	67	MS	[X]	DIG, TR		[X]	[X]	X	X		
		CA	Demand Responsive	14		[X]	DIG, TR		[X]	[X]	X	X		
Arcadia Transit	Arcadia	CA	Demand Responsive	18		X	DIG, TR				X	X	X	
Bay Area Rapid Transit District	Oakland	CA	Heavy or Rapid Rail	669	MS, SC	X	DIG, TR				X	X	X	

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
CalTrain	South San Francisco	CA	Heavy or Rapid Rail	139	SC								X	
Commerce City Municipal Buslines	Commerce	CA	Fixed Route Bus	9			TR				[X]			
		CA	Demand Responsive	5			TR				[X]			
Corona City Dial-A-Ride	Corona	CA	Fixed Route Bus	5		[X]					[X]			
		CA	Demand Responsive	9		[X]					[X]			
Culver City Municipal Bus Lines	Culver City	CA	Fixed Route Bus	50	MS	[X]	TR		[X]	[X]	[X]			
Fairfield/Suisun Transit (FST)	Fairfield	CA	Fixed Route Bus	41		[X]	[DIG], [TR]			[X]	[X]			[X]
		CA	Demand Responsive	21		[X]	[DIG], [TR]			[X]	[X]			
Fresno Area Express	Fresno	CA	Fixed Route Bus	106		X	DIG		X	X	X	X		
		CA	Demand Responsive	22		X	DIG			X	X	X		
Gardena City	Gardena	CA	Fixed Route Bus	50	[SC]	X				X		X		
		CA	Demand Responsive	9	[SC]							X		
Golden Empire Transit (GET)	Bakersfield	CA	Fixed Route Bus	79	MS	X	DIG, TR		X		X			[X]
		CA	Demand Responsive	14		X	DIG, TR				X			
Golden Gate Bridge, Highway and Transportation	San Rafael	CA	Fixed Route Bus	204	SC		[DIG]							
		CA	Ferry Boat	5	SC		[DIG]							
La Mirada City Transit	La Mirada	CA	Demand Responsive	12		[X]	[DIG]			[X]	[X]	X		
Laguna Beach Municipal Transit Lines	Laguna Beach	CA	Fixed Route Bus	15		X	DIG, TR					X		
Livermore/Amador Valley Transit	Livermore	CA	Fixed Route Bus	75	MS	X	TR		X	X	X		X	[X]
		CA	Demand Responsive	18	MS	X	TR			X	X		X	

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Long Beach Transit	Long Beach	CA	Fixed Route Bus	220	[MS], [SC]	X			X	X	X	X		
		CA	Demand Responsive	26							X	X		
Los Angeles City	Los Angeles	CA	Fixed Route Bus	315		X	DIG					X		
		CA	Demand Responsive	68			DIG					X		
Los Angeles County Metropolitan Transp. Authority/MTA	Los Angeles	CA	Light Rail	121			TR			X		X		X
		CA	Heavy or Rapid Rail	104			TR			X		X		
		CA	Fixed Route Bus	2400	SC	X	TR	F, A	X	X		X		X
Montebello Bus Lines	Montebello	CA	Fixed Route Bus	73	MS, [SC]	[X]	[DIG]			[X]	[X]			[X]
		CA	Demand Responsive	5		[X]	[DIG]			[X]	[X]			
Monterey-Salinas Transit	Monterey	CA	Fixed Route Bus	84		X	DIG, TR		[X]	X	X			X
		CA	Demand Responsive	34		X	DIG, TR			X	X			
Muni	San Francisco	CA	Light Rail	225	MS, [SC]	X					[X]	X		X
		CA	Fixed Route Bus	828	[SC]	X					[X]	X		X
Napa County Transit	Napa	CA	Fixed Route Bus	23										
		CA	Demand Responsive	16							X			
North San Diego County Transit Development Board	Oceanside	CA	Fixed Route Bus	164	MS, [SC]	[X]	[DIG]	[A]		[X]	[X]			
		CA	Commuter Rail	28	[SC]	X	[DIG]				X			
Norwalk Transit System	Norwalk	CA	Fixed Route Bus	30	MS, [SC]		[DIG], [TR]		[X]	[X]	[X]		4	
		CA	Demand Responsive	17	MS, [SC]		[DIG], [TR]						4	
Orange County Transportation Authority	Orange	CA	Fixed Route Bus	567	MS	X	DIG, TR	F	X	X	X	X		
		CA	Demand Responsive	273	MS	[X]	DIG, TR				[X]	X		

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Riverside Transit Agency	Riverside	CA	Fixed Route Bus	235	MS	X	DIG		X		[X]		X	
Sacramento Regional Transit District (RT)	Sacramento	CA	Light Rail	97			TR		[X]			X		X
		CA	Fixed Route Bus	275	MS		TR		X		X	X		X
San Mateo County Transit District (SamTrans)	South San Francisco	CA	Fixed Route Bus	317		X			X		X	X		[X]
Santa Clara Valley Transportation Authority	San Jose	CA	Light Rail	71					[X]	X	X			X
		CA	Fixed Route Bus	491		X			X		X			X
Santa Cruz Metropolitan Transit	Santa Cruz	CA	Fixed Route Bus	103	MS	X								
		CA	Demand Responsive	58										
Santa Monica Municipal Bus Lines	Santa Monica	CA	Fixed Route Bus	202	[MS], [SC]	X		F, A	X	X	X		X	
Santa Rosa City	Santa Rosa	CA	Fixed Route Bus	29	[SC]									X
Simi Valley Transit	Simi Valley	CA	Fixed Route Bus	9	SC	X	TR		X					
		CA	Demand Responsive	8		X	TR				[X]			
Sonoma County Transit	Santa Rosa	CA	Fixed Route Bus	47		X	[DIG]				X			
		CA	Demand Responsive	20		[X]	[DIG]				X			
South Coast Area Transit	Oxnard	CA	Fixed Route Bus	46	SC	X			X					
		CA	Demand Responsive	24		X								
Southern California Regional Rail Authority	Los Angeles	CA	Commuter Rail	144	MS, [SC]	[X]	DIG				[X]			
Torrance City Transit System	Torrance	CA	Fixed Route Bus	53	[MS], [SC]	[X]	TR	[F], [A]	[X]	[X]	[X]	X		[X]
Vallejo Transit & San Francisco Ferry	Vallejo	CA	Fixed Route Bus	65			TR						X	X
		CA	Ferry Boat	2			TR						X	
		CA	Demand Responsive	12			TR						X	

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Victor Valley Transit Authority	Hesperia	CA	Fixed Route Bus	35	MS		[DIG], [TR]						[X]	
		CA	Demand Responsive	31		[X]	[DIG], [TR]				X		[X]	
Western Contra Costa Transit	Pinole	CA	Fixed Route Bus	38	[SC]	X	DIG	A					X	[X]
		CA	Demand Responsive	13	[SC]	X	DIG						X	
Greeley City-The Bus	Greeley	CO	Fixed Route Bus	14								X	[X]	
		CO	Demand Responsive	8								X	[X]	
Regional Transportation District (RTD)	Denver	CO	Light Rail	49		X	TR		X					
		CO	Fixed Route Bus	1072		X	TR		X		X			
		CO	Demand Responsive	220			TR							
Connecticut Department of Transportation(CT)	Newington	CT	Fixed Route Bus	654	MS, [SC]	[X]				[X]		X	[X]	
		CT	Ferry Boat	2								X	[X]	
		CT	Demand Responsive	247	[SC]	[X]				[X]		X	[X]	
		CT	Commuter Rail	424								X	[X]	
Connecticut Transit	Hartford	CT	Fixed Route Bus	228	MS		TR							
Connecticut Transit-New Haven	Hartford	CT	Fixed Route Bus	110	MS		TR							
Connecticut Transit-Stamford(CT)	Hartford	CT	Fixed Route Bus	53	MS		TR							
Greater Hartford Transit District	Hartford	CT	Demand Responsive	205							X		X	
Greater New Haven Transit District	Hamden	CT	Fixed Route Bus	4						X	X			
		CT	Demand Responsive	48							X			
Middletown Transit District	Middletown	CT	Fixed Route Bus	9			DIG		[X]	[X]			[X]	
		CT	Demand Responsive	20			DIG						[X]	

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Norwalk Transit District/Westport Transit Lines(CT)	Norwalk	CT	Fixed Route Bus	36	[MS]	[X]						X		
		CT	Demand Responsive	30							X	X		
Washington Metropolitan Area Transit Authority	Washington	DC	Heavy or Rapid Rail	906	MS, SC	X	DIG, TR				X	X	[X]	
		DC	Fixed Route Bus	1457	MS, SC	X	DIG, TR		X	X	X	X	[X]	[X]
		DC	Demand Responsive	183		X	DIG, TR				X	X	[X]	
Advanced Transportation Solutions	Miami	FL	Demand Responsive	268									X	
Broward County Mass Transit	Pompano Beach	FL	Fixed Route Bus	275	MS	X	[DIG]		[X]	X	X	[X]	[X]	
		FL	Ferry Boat	8			[DIG]					[X]	[X]	
		FL	Demand Responsive	337		X	[DIG]					[X]	[X]	
Hillsborough Area Regional Transit Authority	Tampa	FL	Light Rail	8		X	[DIG]					[X]		X
		FL	Fixed Route Bus	181	MS	[X]	[DIG]			[X]	X	[X]		
		FL	Demand Responsive	22		X	[DIG]				X	[X]		
Jacksonville Transportation Authority	Jacksonville	FL	Heavy or Rapid Rail	10	MS	X	[DIG], TR		[X]	X	X	X		
		FL	Fixed Route Bus	174	MS	[X]	[DIG], TR		X	[X]	[X]	X		
		FL	Demand Responsive	100		X	[DIG], TR			X		X		
LYNX Central Florida Regional Transit Authority	Orlando	FL	Fixed Route Bus	244	MS, SC		TR		X				X	
		FL	Demand Responsive	131			TR			X			X	
Manatee County Transit	Bradenton	FL	Fixed Route Bus	15	[MS]	[X]					[X]			
		FL	Demand Responsive	17		[X]					X			
Miami-Dade Transit Authority	Miami	FL	Light Rail	29		X	[DIG], TR							
		FL	Heavy or Rapid Rail	136	MS	X	[DIG], TR				X			

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		FL	Fixed Route Bus	688		X	[DIG], TR				X			
Palm Tran operated by Florida Transit Management Incorporated	West Palm Beach	FL	Fixed Route Bus	106		X	DIG, TR		[X]	[X]	[X]	X		
Pasco County Public Transportation (PCPT)	Port Richey	FL	Fixed Route Bus	14			DIG, TR					X		
		FL	Demand Responsive	25			DIG, TR				X	X		
Pinellas Suncoast Transit Authority	Clearwater	FL	Fixed Route Bus	180	MS, SC	X	TR			X	X			
		FL	Demand Responsive	200			TR							
Sarasota County Transportation	Sarasota	FL	Fixed Route Bus	40			DIG, TR						[X]	
		FL	Demand Responsive	36			DIG, TR						[X]	
Douglas County Rideshare	Douglasville	GA	Demand Responsive	26										
Metropolitan Atlanta Rapid Transit Authority MARTA	Atlanta	GA	Heavy or Rapid Rail	326			[DIG], [TR]						[X]	
		GA	Fixed Route Bus	683	MS, [SC]	X	[DIG], [TR]		X	X			[X]	[X]
Oahu Transit Services (The Bus)	Honolulu	HI	Fixed Route Bus	525	[SC]	X	DIG, TR		X	X	X	X		[X]
		HI	Demand Responsive	114			DIG, TR				X	X		
Cook-DuPage Transportation	Chicago	IL	Demand Responsive	186		X	DIG				X			
Northeast Illinois Regional Commuter RR Corporation	Chicago	IL	Commuter Rail	1076		X				X				
PACE	Arlington Heights	IL	Fixed Route Bus	650	MS, SC	X		[F], [A]		X	X	[X]	[X]	X
		IL	Demand Responsive	345	[MS]	[X]						[X]	[X]	
East Chicago Transit	East Chicago	IN	Fixed Route Bus	6		X					X			
		IN	Demand Responsive	3		X					X			
Gary Public Transportation Corporation	Gary	IN	Fixed Route Bus	27	[MS]		DIG			[X]		X	[X]	

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		IN	Demand Responsive	4	[MS]	[X]	DIG			[X]		X	[X]	
Hammond Transit System	Hammond	IN	Fixed Route Bus	14			TR						[X]	
Indianapolis Public Transportation	Indianapolis	IN	Fixed Route Bus	146	MS	[X]	[DIG], TR		[X]		[X]			
		IN	Demand Responsive	61		[X]	[DIG], TR				[X]			
North Township of Lake County Dial-A-Ride	Hammond	IN	Demand Responsive	4										
Northern Indiana Commuter	Chesterton	IN	Commuter Rail	56							[X]	X		
Northwest Indiana Community Action Corporation	Hammond	IN	Demand Responsive	37			[DIG]					X	X	
Opportunity Enterprises Incorporated	Valparaiso	IN	Demand Responsive	22			TR							
Wichita Metropolitan Transit Authority	Wichita	KS	Fixed Route Bus	53	MS	[X]	[DIG], TR	[A]		[X]	[X]	[X]	X	
		KS	Demand Responsive	26		[X]	[DIG], TR				[X]	[X]	X	
Transit Authority of River City (TARC)	Louisville	KY	Fixed Route Bus	258		X		[F], [A]						
		KY	Demand Responsive	78							X			
Louisiana Department of Transportation - Crescent City Connection Division	New Orleans	LA	Ferry Boat	6			TR							
Louisiana Transit Company, Incorporation	Harahan	LA	Fixed Route Bus	30	MS	X	DIG, TR	A	X	X	X			
Regional Transit Authority	New Orleans	LA	Light Rail	66	MS, SC	X	[DIG], TR		[X]	[X]	[X]	X		
		LA	Fixed Route Bus	367	[MS], [SC]	X	[DIG], TR	[F], A	[X]	[X]	[X]	X		
		LA	Demand Responsive	92	[MS], [SC]	X	[DIG], TR				X	X		
St. Bernard Parish Government	Chalmette	LA	Fixed Route Bus	7										
Westside Transit Lines	Gretna	LA	Fixed Route Bus	33	SC	X	TR		X	X	X		[X]	
Massachusetts Bay Transportation Authority	Boston	MA	Light Rail	198	MS, [SC]		[DIG], [TR]							

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		MA	Heavy or Rapid Rail	408	MS, [SC]		[DIG], [TR]				X			
		MA	Fixed Route Bus	1000	MS, [SC]	X	[DIG], [TR]			[X]	X			[X]
		MA	Ferry Boat	3			[DIG], [TR]							
		MA	Demand Responsive	430		X	[DIG], [TR]				[X]			
		MA	Commuter Rail	446			[DIG], [TR]				X			
Pioneer Valley Transit Authority	Springfield	MA	Fixed Route Bus	197	MS	[X]	[TR]		[X]	[X]	[X]	[X]		[X]
		MA	Demand Responsive	125			[TR]					[X]		
Frederick County Transit	Frederick	MD	Fixed Route Bus	22			TR						[X]	
		MD	Demand Responsive	31			TR						[X]	
Harford County Transportation	Abingdon	MD	Fixed Route Bus	20	[SC]		DIG						[X]	
		MD	Demand Responsive	10			DIG						[X]	
Howard Area Transit Service (HATS)	Laurel	MD	Fixed Route Bus	24		X	DIG, TR				X			
		MD	Demand Responsive	22		X	DIG, TR				X			
Maryland Department of Transportation	Hanover	MD	Light Rail	53			TR							X
		MD	Heavy or Rapid Rail	100			TR							
		MD	Fixed Route Bus	880	[MS], [SC]	X	TR		X		X			
		MD	Demand Responsive	20	MS, SC		TR				X			
Montgomery County - Ride On	Rockville	MD	Fixed Route Bus	346	[SC]	X					X	X	4	X
Ann Arbor Transportation Authority	Ann Arbor	MI	Fixed Route Bus	86	MS, [SC]	X			X	X	X		X	
		MI	Demand Responsive	5	MS, [SC]	X				X	X		X	
Grand Rapids Area Transit Authority	Grand Rapids	MI	Fixed Route Bus	83	MS, SC		[DIG], TR						[X]	X

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		MI	Demand Responsive	60			[DIG], TR						[X]	
Metro Transit	Minneapolis	MN	Light Rail	24	MS, SC		DIG, TR		[X]	X		X	X	X
		MN	Fixed Route Bus	860	MS, SC	X	DIG, TR		X	X	X	X	X	[X]
Bi-State Development Agency	St. Louis	MO	Light Rail	65	MS				X			X	X	
		MO	Fixed Route Bus	451	MS	[X]			X	[X]	[X]	X	X	
		MO	Demand Responsive	100								X	X	
Capital Area Transit	Raleigh	NC	Fixed Route Bus	56	MS		DIG							
		NC	Demand Responsive	16	MS		DIG							
Chapel Hill Transit	Chapel Hill	NC	Fixed Route Bus	83	MS	[X]			[X]	[X]	[X]			
		NC	Demand Responsive	11		[X]				[X]	[X]			
Charlotte Area Transit System (CATS) (Charlotte DOT)	Charlotte	NC	Fixed Route Bus	300	MS	X	DIG, TR		X		X		X	X
		NC	Demand Responsive	83		X	DIG, TR				X		X	
Durham Area Transit	Durham	NC	Fixed Route Bus	43	[SC]					X		X	X	
		NC	Demand Responsive	40		X				X		X	X	
Gastonia Transit	Gastonia	NC	Fixed Route Bus	6										
		NC	Demand Responsive	2										
Greensboro City Transportation Department	Greensboro	NC	Fixed Route Bus	22	MS	[X]	DIG		[X]			[X]	[X]	
		NC	Demand Responsive	23		[X]	DIG				X	[X]	[X]	
High Point Transit	High Point	NC	Fixed Route Bus	15	MS		DIG, TR					X		
		NC	Demand Responsive	6			DIG, TR				[X]	X		
Triangle Transit Authority	Research Triangle Park	NC	Fixed Route Bus	67	[MS]	X	TR				X			

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
	Pk	NC	Demand Responsive	5		X	TR				X			
Winston-Salem Transit Authority	Winston-Salem	NC	Fixed Route Bus	58	MS	X					X		[X]	
		NC	Demand Responsive	21		X					X		[X]	
Omaha Transit Authority	Omaha	NE	Fixed Route Bus	132		X				X	X			
Omaha Transit Authority	Omaha	NE	Demand Responsive	16		X				X	X			
Academy Lines Incorporated(NJ)	Hoboken	NJ	Fixed Route Bus	600	MS	X								
New Jersey Transit Corporation(NJ)	Newark	NJ	Light Rail	65			TR		X		X			
		NJ	Fixed Route Bus	2067		X	TR	F	X		X			
		NJ	Demand Responsive	182	MS	X	TR				X			
		NJ	Commuter Rail	894	MS, SC	[X]	TR		X	X	X			
Port Authority Trans-Hudson (PATH)	Jersey City	NJ	Heavy or Rapid Rail	259	MS, [SC]		DIG, TR						X	
Port Authority Transit Corporation	Lindenwold	NJ	Heavy or Rapid Rail	121	MS									
Rockland Coaches Incorporated	Westwood	NJ	Fixed Route Bus	115										
Sun Tran	Albuquerque	NM	Fixed Route Bus	120		[X]	DIG, TR				[X]			[X]
		NM	Demand Responsive	55		[X]	DIG, TR				X			
Regional Transportation Commission/Citizens Area Transit	Las Vegas	NV	Fixed Route Bus	311	MS	X	TR		X	X	X	[X]		X
		NV	Demand Responsive	168		X	TR			X	X	[X]		
Blue Bird Coach Lines/Niagara Scenic Bus Lines	N. Tonawanda	NY	Fixed Route Bus	3										
Capital District Transit Authority (CDTA)	Albany	NY	Fixed Route Bus	235	MS	X	DIG	[F], [A]	X	X	X	X	X	[X]
		NY	Demand Responsive	33	MS	X	DIG		X	X	X	X	X	
Central New York Regional Transit Authority	Syracuse	NY	Fixed Route Bus	185	MS	X	DIG		X	X	X	X	X	

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		NY	Demand Responsive	22	MS	X	DIG			X	X	X	X	
Clarkstown Mini-Trans	Nanuet	NY	Fixed Route Bus	7			DIG							
Long Beach City	Long Beach	NY	Fixed Route Bus	12	MS									
		NY	Demand Responsive	2										
Long Island Rail Road	Jamaica	NY	Commuter Rail	1100		X			[X]	[X]				
Metro-North Railroad MTA	New York	NY	Commuter Rail	900		[X]				X		X		
MTA Long Island Bus	Garden City	NY	Fixed Route Bus	327	MS	X	DIG, TR		X	X	X	X	X	
		NY	Demand Responsive	85		X	DIG, TR				X	X	X	
Niagara Frontier Transportation Authority	Buffalo	NY	Light Rail	27			TR		[X]		[X]	X	[X]	X
		NY	Fixed Route Bus	321	MS	X	TR		X	X	X	X	[X]	
		NY	Demand Responsive	26	MS	X	TR			X		X	[X]	
Putnam County Transit	Carmel	NY	Fixed Route Bus	8			[DIG]							
		NY	Demand Responsive	4			[DIG]							
Queens Surface Corporation	Flushing	NY	Fixed Route Bus	313	MS		TR							
Suffolk County	Yaphank	NY	Fixed Route Bus	158	MS	[X]	TR		[X]	[X]	[X]	X		
		NY	Demand Responsive	46		[X]	TR			[X]	[X]	X		
Village of Spring Valley Bus	Spring Valley	NY	Fixed Route Bus	2			DIG							
Westchester County	Mt. Vernon	NY	Fixed Route Bus	351	[MS], [SC]	[X]	[TR]		[X]	[X]	[X]	X		
		NY	Demand Responsive	60			[TR]					X		
COTA	Columbus	OH	Fixed Route Bus	260	MS	X	TR		X		X		[X]	
		OH	Demand Responsive	40		X	TR				X		[X]	

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Greater Cleveland Regional Transit	Cleveland	OH	Light Rail	48	MS	[X]	DIG, TR			[X]	[X]		[X]	
		OH	Heavy or Rapid Rail	60	MS	[X]	DIG, TR			[X]	[X]		[X]	
		OH	Fixed Route Bus	688	MS	X	DIG, TR		X	X	X		[X]	
		OH	Demand Responsive	97		X	DIG, TR			X	X		[X]	
Laketran	Grand River	OH	Fixed Route Bus	39		[X]				[X]			[X]	
		OH	Demand Responsive	71		[X]				[X]	[X]		[X]	
Lorain County Transit	Lorain	OH	Fixed Route Bus	22			[DIG]				X			
		OH	Demand Responsive	15			[DIG]							
Metro Regional Transit Authority	Akron	OH	Fixed Route Bus	142	MS									
		OH	Demand Responsive	124	MS	X				X	X			
Miami Valley Regional Transit	Dayton	OH	Fixed Route Bus	226	MS, [SC]	X			X	X	X			
		OH	Demand Responsive	68		X				X	X			
Southwest Ohio Regional Transit Authority (SORTA)	Cincinnati	OH	Fixed Route Bus	433	MS	X	TR	F, A			X			
		OH	Demand Responsive	51		X	TR				X			
Springfield City Area Transit	Springfield	OH	Fixed Route Bus	15										
		OH	Demand Responsive	6										
Toledo Area Regional Transit Authority (TARTA)	Toledo	OH	Fixed Route Bus	185		X	[DIG]							
		OH	Demand Responsive	44		X	[DIG]				X			
Western Reserve Transit Authority	Youngstown	OH	Fixed Route Bus	43	[MS]	X					X		[X]	
		OH	Demand Responsive	7	[MS]	X					X		[X]	
Central Oklahoma Transit	Oklahoma City	OK	Fixed Route Bus	72	MS		TR				X		X	

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		OK	Demand Responsive	18			TR				X		X	
Tulsa Transit	Tulsa	OK	Fixed Route Bus	55			DIG, TR		X				X	
		OK	Demand Responsive	35			DIG, TR						X	
Tri-Met	Portland	OR	Light Rail	105		X	TR		X		X	X	[X]	X
		OR	Fixed Route Bus	632		X	TR	A	X		X	X	[X]	X
		OR	Demand Responsive	186		X	TR				X	X	[X]	
Access Transportation Systems Incorporated	Pittsburgh	PA	Demand Responsive	425		X							X	
Beaver County Transit Authority	Rochester	PA	Fixed Route Bus	34	[MS], [SC]	X			X	X	X	[X]	[X]	[X]
		PA	Demand Responsive	23		X			X	X	X	[X]	[X]	
Cumberland-Dauphin-Harrisburg Transit Authority	Harrisburg	PA	Fixed Route Bus	71			TR							
		PA	Demand Responsive	50			TR							
G G & C Bus Company Incorporated	Washington	PA	Fixed Route Bus	4	[MS]	[X]							X	
		PA	Demand Responsive	24		[X]					[X]		X	
Lackawanna County Transit System (COLTS)	Scranton	PA	Fixed Route Bus	30		X				X	X	X		
Lehigh and Northampton	Allentown	PA	Fixed Route Bus	82	MS							X	X	
		PA	Demand Responsive	125		X				X	X	X	X	
Luzerne County Transportation	Kingston	PA	Fixed Route Bus	38		X	DIG							
Port Authority of Allegheny County	Pittsburgh	PA	Light Rail	54								X		
		PA	Fixed Route Bus	1000					X			X		
Southeastern Pennsylvania Transportation Authority (SEPTA)	Philadelphia	PA	Light Rail	185	MS	[X]	TR				X			X
		PA	Heavy or Rapid Rail	379	MS	X	TR			X	X			

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		PA	Fixed Route Bus	1349	MS	X	TR		X	X	X			[X]
		PA	Demand Responsive	500	MS		TR				X			
		PA	Commuter Rail	352			TR				X			
Westmoreland County Transit	Greensburg	PA	Fixed Route Bus	31		[X]	[DIG], [TR]							
Rhode Island Public Transit Authority	Providence	RI	Fixed Route Bus	236	[MS], [SC]	[X]	TR	[A]	X	[X]	[X]	X	X	
		RI	Ferry Boat	1			TR					X	X	
		RI	Demand Responsive	130			TR					X	X	
Charleston Transit Administration	Charleston	SC	Fixed Route Bus	66	MS	X	DIG, TR			X	[X]			X
		SC	Demand Responsive	16	MS	X	DIG, TR				X			
Greenville Transit Authority (GTA)	Greenville	SC	Fixed Route Bus	15	MS		DIG, TR			X				
		SC	Demand Responsive	4			DIG, TR		[X]					
Transit Management of Spartanburg	Spartanburg	SC	Fixed Route Bus	11	[MS], [SC]		DIG							
Knoxville Transportation Authority	Knoxville	TN	Fixed Route Bus	88	MS	X	DIG							
		TN	Demand Responsive	12	MS		DIG							
Memphis Area Transit Authority	Memphis	TN	Light Rail	14	MS	[X]			[X]	[X]	[X]	[X]	X	X
		TN	Fixed Route Bus	187	MS				[X]			[X]	X	
		TN	Demand Responsive	68	MS	X				X	X	[X]	X	
Metropolitan Transit Authority	Nashville	TN	Fixed Route Bus	161	MS, SC	[X]	[DIG], [TR]			[X]	X			[X]
		TN	Demand Responsive	45	MS, SC	[X]	[DIG], [TR]			[X]	X			
Austin Capital Metropolitan Transportation Authority	Austin	TX	Fixed Route Bus	385	MS, SC	[X]	DIG, TR		X		[X]			
		TX	Demand Responsive	105		[X]	DIG, TR			[X]	[X]			

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Dallas Area Rapid Transit (DART)	Dallas	TX	Light Rail	95									[X]	[X]
		TX	Fixed Route Bus	759	MS				X				[X]	[X]
		TX	Demand Responsive	182		X					X		[X]	
		TX	Commuter Rail	36									[X]	
Denton City Manager	Denton	TX	Fixed Route Bus	30										
		TX	Demand Responsive	4										
Fort Worth Transportation Authority (The T)	Fort Worth	TX	Fixed Route Bus	152		X	TR						X	
		TX	Demand Responsive	39		[X]	TR						X	
		TX	Commuter Rail	36			TR			X			X	
Grand Prairie City	Grand Prairie	TX	Demand Responsive	11			DIG, TR							
Lewisville Dial-A-Ride	Lewisville	TX	Demand Responsive	8			DIG, TR						[X]	
McAllen Express	Weslaco	TX	Fixed Route Bus	6		[X]		[F], [A]		[X]	[X]		X	
		TX	Demand Responsive	2		[X]				[X]	[X]		X	
Mesquite City Transit	Mesquite	TX	Demand Responsive	15										
Metro Transit Authority	Houston	TX	Light Rail	18	MS, SC	X	TR		X		X	X		X
		TX	Fixed Route Bus	1443	MS, SC	[X]	TR		[X]		X	X		[X]
		TX	Demand Responsive	118		X	TR				X	X		
Sun Metro-El Paso City	El Paso	TX	Fixed Route Bus	159		X	[DIG], TR		X	X	X			
		TX	Demand Responsive	45		X	[DIG], TR				X			
VIA Metropolitan Transit	San Antonio	TX	Fixed Route Bus	428		X	TR		X	X	X			
		TX	Demand Responsive	210		X	TR			X	X			

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Utah Transit Authority	Salt Lake City	UT	Light Rail	40		X	[DIG], [TR]		[X]		X			X
		UT	Fixed Route Bus	483		[X]	[DIG], [TR]		X		[X]			X
		UT	Demand Responsive	94		[X]	[DIG], [TR]				[X]			
Fairfax Connector Bus System	Fairfax	VA	Fixed Route Bus	170	[SC]		[DIG], TR						X	X
		VA	Demand Responsive	111			[DIG], TR						X	
Greater Richmond Transit Company	Richmond	VA	Fixed Route Bus	186	MS						X			
		VA	Demand Responsive	65		[X]					[X]			
Hampton Roads Transit	Hampton	VA	Fixed Route Bus	381	MS	X			[X]		X	X		
		VA	Ferry Boat	3	MS							X		
Petersburg Area Transit	Petersburg	VA	Fixed Route Bus	11	[MS], [SC]	[X]	[DIG], [TR]		[X]	[X]		X	[X]	
		VA	Demand Responsive	2	[MS], [SC]		[DIG], [TR]					X	[X]	
Potomac and Rappahannock Transportation Commission	Woodbridge	VA	Fixed Route Bus	69	[SC]	X	DIG, TR				X			
		VA	Demand Responsive	16	[SC]	X	DIG, TR				X			
Clark County Public Transportation Benefit Area Authority	Vancouver	WA	Fixed Route Bus	113		[X]	DIG, TR		[X]		[X]	X	[X]	
		WA	Demand Responsive	50		[X]	DIG, TR				[X]	X	[X]	
Everett Transit	Everett	WA	Fixed Route Bus	40	[SC]		TR							
		WA	Demand Responsive	18			TR				X			
King County Metro	Seattle	WA	Fixed Route Bus	1325	MS, [SC]	X			X		X	[X]	[X]	X
Kitsap Transit	Bremerton	WA	Fixed Route Bus	117	[SC]		DIG, TR						X	X
		WA	Ferry Boat	2	[SC]		DIG, TR						X	
		WA	Demand Responsive	57			DIG, TR				X		X	

Agency	City	State	Service	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Pierce County Ferry Operations	Tacoma	WA	Ferry Boat	2		[X]								
Pierce Transit	Lakewood	WA	Fixed Route Bus	236					[X]	[X]		X	X	X
		WA	Demand Responsive	108								X	X	
Seattle Monorail Transit	Seattle	WA	Commuter Rail	8			DIG, TR							
Snohomish County Public Transportation	Everett	WA	Fixed Route Bus	292	[SC]		DIG						[X]	X
		WA	Demand Responsive	51			DIG						[X]	
Snohomish County Senior Services	Mukilteo	WA	Demand Responsive	52			DIG, TR						[X]	
Sound Transit	Seattle	WA	Light Rail	3			TR		X					X
		WA	Fixed Route Bus	209	MS, [SC]	X	TR		X	X	X			X
		WA	Commuter Rail	31	[SC]	X	TR				[X]			
Washington State Ferries	Seattle	WA	Ferry Boat	29		X				X		X		
Whatcom Transportation Authority	Bellingham	WA	Fixed Route Bus	38	MS		DIG, TR							
		WA	Demand Responsive	38		[X]	DIG, TR				X			
Belle Urban System-Racine	Racine	WI	Fixed Route Bus	31		X	DIG		X	X	X			
		WI	Demand Responsive	10			DIG							
Kenosha Transit	Kenosha	WI	Light Rail	1										
		WI	Fixed Route Bus	48										
		WI	Demand Responsive	6										
Waukesha City Metro Transit	Waukesha	WI	Fixed Route Bus	28	MS	X	DIG, TR			X	X			
		WI	Demand Responsive	4	MS	[X]	DIG, TR			[X]	[X]			

Table 3-2. Large metro area agency technology deployment and integration

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
Birmingham-Jefferson County Transit Authority	Birmingham	AL	Fixed Route Bus	[X]					P, W			RA	X	
		AL	Demand Responsive						P, W			RA	X	
Central Arkansas Transit Authority	North Little Rock	AR	Fixed Route Bus	X					P					
		AR	Demand Responsive						P					
Glendale Dial-A-Ride	Glendale	AZ	Fixed Route Bus		X				P, W, I		X		X	X
		AZ	Demand Responsive						P, W, I		X		X	X
Mesa City	Mesa	AZ	Fixed Route Bus	X		X			P, W, I	[X]	X	[RA]		X
Peoria Transit	Peoria	AZ	Demand Responsive						P, I			[RA]		[X]
Phoenix Transit System	Phoenix	AZ	Fixed Route Bus	X	X	X			P, W, I	X	X	RA		X
		AZ	Demand Responsive						P, W, I	X	X	RA		X
Sun Cities Area Transit System	Sun City	AZ	Demand Responsive											
Sun Tran	Tucson	AZ	Fixed Route Bus	X	X				P, W, I	X		RA		X
Surprise Dial-A-Ride	Surprise	AZ	Demand Responsive						P, I					
VanTran	Tucson	AZ	Demand Responsive		X				[P], [I]	[X]		T		X
Access Services Incorporated	Los Angeles	CA	Demand Responsive						P			[RA]		X
Alameda Ferry Services	Alameda	CA	Ferry Boat						P, I			[RA]		
Antelope Valley Transit Authority	Lancaster	CA	Fixed Route Bus	X	[X]	X			P, W, I			[RA]		[X]
		CA	Demand Responsive						P, W, I			[RA]		[X]
Arcadia Transit	Arcadia	CA	Demand Responsive						P			[RA]		
Bay Area Rapid Transit District	Oakland	CA	Heavy or Rapid Rail	X					P, W, I	X	X	RA, T		
CalTrain	South San Francisco	CA	Heavy or Rapid Rail						P, W, I		X			

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
Commerce City Municipal Buslines	Commerce	CA	Fixed Route Bus	[X]		[X]	[X]	2-WAY RADIO	P, W, [I]			[RA]	X	
		CA	Demand Responsive						P, W, [I]			[RA]	X	
Corona City Dial-A-Ride	Corona	CA	Fixed Route Bus						P, W			RA		[X]
		CA	Demand Responsive						P, W			RA		[X]
Culver City Municipal Bus Lines	Culver City	CA	Fixed Route Bus	[X]	[X]				P, W, I		X	RA, T		[X]
Fairfield/Suisun Transit (FST)	Fairfield	CA	Fixed Route Bus						P, W, I		X	[RA]		[X]
		CA	Demand Responsive						P, W, I		X	[RA]		[X]
Fresno Area Express	Fresno	CA	Fixed Route Bus	X	X	X			P, W, I	[X]				X
		CA	Demand Responsive						P, W, I	[X]				X
Gardena City	Gardena	CA	Fixed Route Bus		X				P, I	X	X			
		CA	Demand Responsive						P, I	X	X			
Golden Empire Transit (GET)	Bakersfield	CA	Fixed Route Bus	X	X	X			P, [W], [I]					X
		CA	Demand Responsive						P, [W], [I]					X
Golden Gate Bridge, Highway and Transportation	San Rafael	CA	Fixed Route Bus	X	X				P, I		X	RA		
		CA	Ferry Boat						P, I		X	RA		
La Mirada City Transit	La Mirada	CA	Demand Responsive						P, [W]		[X]	[RA]		
Laguna Beach Municipal Transit Lines	Laguna Beach	CA	Fixed Route Bus						P, W, I					X
Livermore/Amador Valley Transit	Livermore	CA	Fixed Route Bus	X	X	X			P, W, I	[X]	[X]	[RA]		X
		CA	Demand Responsive						P, W, I	[X]	[X]	[RA]		X
Long Beach Transit	Long Beach	CA	Fixed Route Bus		X	X			P, W, I	[X]	X	[RA]		X
		CA	Demand Responsive						P, W, I	[X]	X	[RA]		
Los Angeles City	Los Angeles	CA	Fixed Route Bus	X					P, W, I		[X]	RA		
		CA	Demand Responsive						P, W, I		[X]	RA		

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
Los Angeles County Metropolitan Transp. Authority/MTA	Los Angeles	CA	Light Rail						P, I	X	[X]	RA		
		CA	Heavy or Rapid Rail						P, I	X	[X]	RA		
		CA	Fixed Route Bus	X	X	X			P, I	X	[X]	RA		X
Montebello Bus Lines	Montebello	CA	Fixed Route Bus	X	X	X			P, [W], [I]		X	RA	X	[X]
		CA	Demand Responsive						P, [W], [I]		X	RA	X	[X]
Monterey-Salinas Transit	Monterey	CA	Fixed Route Bus	X	X	X			P, W, I	[X]		RA	X	X
		CA	Demand Responsive						P, W, I	[X]		RA	X	X
Muni	San Francisco	CA	Light Rail	X	X	X			P, W, I	X	X	RA		
		CA	Fixed Route Bus	X	X	X			P, W, I	X	X	RA		
Napa County Transit	Napa	CA	Fixed Route Bus	X					P, I	[X]		[RA]		
		CA	Demand Responsive						P, I	[X]		[RA]		
North San Diego County Transit Development Board	Oceanside	CA	Fixed Route Bus	X	X	[X]			P	[X]	X	[RA]		[X]
		CA	Commuter Rail						P	[X]	X	[RA]		
Norwalk Transit System	Norwalk	CA	Fixed Route Bus	X	X				P, W, I		X	[RA]		
		CA	Demand Responsive						P, W, I		X	[RA]		
Orange County Transportation Authority	Orange	CA	Fixed Route Bus	X	X	X			P, W, I	X	X	T		X
		CA	Demand Responsive						P, W, I	X	X	T		[X]
Riverside Transit Agency	Riverside	CA	Fixed Route Bus	X					P, W, I			[RA], T		
Sacramento Regional Transit District (RT)	Sacramento	CA	Light Rail	X	X				P, W, I			RA, R		
		CA	Fixed Route Bus	X	X				P, W, I			RA, R		X
San Mateo County Transit District (SamTrans)	South San Francisco	CA	Fixed Route Bus	X	X	X			P, W, I		X	[RA]		X
Santa Clara Valley Transportation Authority	San Jose	CA	Light Rail	X					P, W, I	X	X	RA, T		
		CA	Fixed Route Bus	X					P, W, I	X	X	RA, T		

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
Santa Cruz Metropolitan Transit	Santa Cruz	CA	Fixed Route Bus		X				P, I			[RA]		
		CA	Demand Responsive						P, I			[RA]		
Santa Monica Municipal Bus Lines	Santa Monica	CA	Fixed Route Bus	X	X	X			P, W, I		X	[RA]		
Santa Rosa City	Santa Rosa	CA	Fixed Route Bus	X	X	X			P, I		X			
Simi Valley Transit	Simi Valley	CA	Fixed Route Bus						P, W		X	[RA]		
		CA	Demand Responsive						P, W		X	[RA]		
Sonoma County Transit	Santa Rosa	CA	Fixed Route Bus	X	X				P, W, I			[RA]		
		CA	Demand Responsive						P, W, I			[RA]		
South Coast Area Transit	Oxnard	CA	Fixed Route Bus						P, W, I		X			
		CA	Demand Responsive						P, W, I		X			
Southern California Regional Rail Authority	Los Angeles	CA	Commuter Rail						P, W, I		X		X	X
Torrance City Transit System	Torrance	CA	Fixed Route Bus			X			P, W, I	[X]	X	[RA], T	X	[X]
Vallejo Transit & San Francisco Ferry	Vallejo	CA	Fixed Route Bus	X	X				P, I					
		CA	Ferry Boat						P, I					
		CA	Demand Responsive						P, I					
Victor Valley Transit Authority	Hesperia	CA	Fixed Route Bus	X					P		[X]	RA		
		CA	Demand Responsive						P		[X]	RA		X
Western Contra Costa Transit	Pinole	CA	Fixed Route Bus	X	X	X			P, I	X	X			
		CA	Demand Responsive						P, I	X	X			
Greeley City-The Bus	Greeley	CO	Fixed Route Bus						P, I			RA	X	
		CO	Demand Responsive						P, I			RA	X	
Regional Transportation District (RTD)	Denver	CO	Light Rail	X	X	X			P, W, I					
		CO	Fixed Route Bus	X	X	X			P, W, I					

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
		CO	Demand Responsive						P, W, I					
Connecticut Department of Transportation(CT)	Newington	CT	Fixed Route Bus	X	X				P, W, I	[X]	X	[RA]	X	
		CT	Ferry Boat						P, W, I	[X]	X	[RA]	X	
		CT	Demand Responsive						P, W, I	[X]	X	[RA]	X	X
		CT	Commuter Rail						P, W, I	[X]	X	[RA]	X	
Connecticut Transit	Hartford	CT	Fixed Route Bus	X	X				P, W, [I]	[X]	X	[RA]		
Connecticut Transit-New Haven	Hartford	CT	Fixed Route Bus	X	X				P, W, [I]	[X]	X	[RA]		
Connecticut Transit-Stamford(CT)	Hartford	CT	Fixed Route Bus		X				P, W, [I]	[X]	X	[RA]		
Greater Hartford Transit District	Hartford	CT	Demand Responsive			X			P, I			[RA]		
Greater New Haven Transit District	Hamden	CT	Fixed Route Bus						P					
		CT	Demand Responsive						P					
Middletown Transit District	Middletown	CT	Fixed Route Bus	X	X				P, I		X	[RA]		[X]
		CT	Demand Responsive						P, I		X	[RA]		
Norwalk Transit District/Westport Transit Lines(CT)	Norwalk	CT	Fixed Route Bus		X				P, [W], I		[X]	[RA]	X	
		CT	Demand Responsive						P, [W], I		[X]	[RA]	X	
Washington Metropolitan Area Transit Authority	Washington	DC	Heavy or Rapid Rail						P, I	X	[X]	[RA]		
		DC	Fixed Route Bus	X	X	X			P, I	X	[X]	[RA]		X
		DC	Demand Responsive						P, I	X	[X]	[RA]		X
Advanced Transportation Solutions	Miami	FL	Demand Responsive								X			
Broward County Mass Transit	Pompano Beach	FL	Fixed Route Bus	X	X	X			P, W, I	[X]	X	[RA]		
		FL	Ferry Boat						P, W, I	[X]	X	[RA]		
		FL	Demand Responsive						P, W, I	[X]	X	[RA]		
Hillsborough Area Regional Transit Authority	Tampa	FL	Light Rail	[X]	[X]	[X]			P, W, I	[X]	[X]	[RA]		[X]

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
		FL	Fixed Route Bus	X	X	X			P, W, I	[X]	[X]	[RA]		[X]
		FL	Demand Responsive						P, W, I	[X]	[X]	[RA]		[X]
Jacksonville Transportation Authority	Jacksonville	FL	Heavy or Rapid Rail	X					P, W, I			[RA], T		
		FL	Fixed Route Bus	X	X				P, W, I			[RA], T		
		FL	Demand Responsive						P, W, I			[RA], T		X
LYNX Central Florida Regional Transit Authority	Orlando	FL	Fixed Route Bus	X	X	[X]			P, W, I		X	RA, T		
		FL	Demand Responsive						P, W, I		X	RA, T		
Manatee County Transit	Bradenton	FL	Fixed Route Bus						P, I		X	[RA]		
		FL	Demand Responsive						P, I		X	[RA]		[X]
Miami-Dade Transit Authority	Miami	FL	Light Rail		X	X			P, [W], I	[X]	X	RA	X	
		FL	Heavy or Rapid Rail		X	X			P, [W], I	[X]	X	RA	X	
		FL	Fixed Route Bus	X	X	X			P, [W], I	[X]	X	RA	X	
Palm Tran operated by Florida Transit Management Incorporated	West Palm Beach	FL	Fixed Route Bus	X					P, [W], I	[X]	X	[RA]	X	[X]
Pasco County Public Transportation (PCPT)	Port Richey	FL	Fixed Route Bus						P, [W], I			RA		
		FL	Demand Responsive						P, [W], I			RA		
Pinellas Suncoast Transit Authority	Clearwater	FL	Fixed Route Bus	X	X	X			P, I		X	[RA]		[X]
		FL	Demand Responsive						P, I		X	[RA]		
Sarasota County Transportation	Sarasota	FL	Fixed Route Bus	X	X				P, [W], I			RA		
		FL	Demand Responsive						P, [W], I			RA		
Douglas County Rideshare	Douglasville	GA	Demand Responsive						P			[RA]		
Metropolitan Atlanta Rapid Transit Authority MARTA	Atlanta	GA	Heavy or Rapid Rail	[X]					P, W, I	X	X	[RA]	X	X
		GA	Fixed Route Bus	[X]	X	X			P, W, I	X	X	[RA]	X	X
Oahu Transit Services (The Bus)	Honolulu	HI	Fixed Route Bus		X	X			W, I			RA, T		X

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
		HI	Demand Responsive						W, I			RA, T		
Cook-DuPage Transportation	Chicago	IL	Demand Responsive											X
Northeast Illinois Regional Commuter RR Corporation	Chicago	IL	Commuter Rail						P, W, I				X	
PACE	Arlington Heights	IL	Fixed Route Bus		X	X			P, W, I	[X]		RA		X
		IL	Demand Responsive						P, W, I	[X]		RA		[X]
East Chicago Transit	East Chicago	IN	Fixed Route Bus						I					
		IN	Demand Responsive						I					
Gary Public Transportation Corporation	Gary	IN	Fixed Route Bus		X				P, [W], I					X
		IN	Demand Responsive						P, [W], I					X
Hammond Transit System	Hammond	IN	Fixed Route Bus	X	X				P, W, I					
Indianapolis Public Transportation	Indianapolis	IN	Fixed Route Bus		X				P, [W], I			[RA]		[X]
		IN	Demand Responsive						P, [W], I			[RA]		[X]
North Township of Lake County Dial-A-Ride	Hammond	IN	Demand Responsive											
Northern Indiana Commuter	Chesterton	IN	Commuter Rail						P, I		[X]	RA		
Northwest Indiana Community Action Corporation	Hammond	IN	Demand Responsive						P, W, I		X			
Opportunity Enterprises Incorporated	Valparaiso	IN	Demand Responsive										X	
Wichita Metropolitan Transit Authority	Wichita	KS	Fixed Route Bus	X					P, I			[RA]		[X]
		KS	Demand Responsive						P, I			[RA]		[X]
Transit Authority of River City (TARC)	Louisville	KY	Fixed Route Bus	X	X				P, [W], I			[RA]		
		KY	Demand Responsive						P, [W], I			[RA]		
Louisiana Department of Transportation - Crescent City Connection Division	New Orleans	LA	Ferry Boat									[RA]	X	
Louisiana Transit Company, Incorporation	Harahan	LA	Fixed Route Bus	X	X	X			P		[X]	RA, T		X
Regional Transit Authority	New Orleans	LA	Light Rail	X	X	X			P, [W], I	X	X	[RA]		[X]

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
		LA	Fixed Route Bus	X	X	X			P, [W], I	X	X	[RA]		[X]
		LA	Demand Responsive						P, [W], I	X	X	[RA]		[X]
St. Bernard Parish Government	Chalmette	LA	Fixed Route Bus	X		X			P, [W], I			RA		
Westside Transit Lines	Gretna	LA	Fixed Route Bus	X	X	X			P, W, [I]		X	RA	X	X
Massachusetts Bay Transportation Authority	Boston	MA	Light Rail						P, I				X	
		MA	Heavy or Rapid Rail						P, I				X	
		MA	Fixed Route Bus		X	[X]			P, I				X	X
		MA	Ferry Boat						P, I				X	
		MA	Demand Responsive						P, I				X	X
		MA	Commuter Rail						P, I				X	
Pioneer Valley Transit Authority	Springfield	MA	Fixed Route Bus	X	X	X			P, [W], I	[X]	[X]	[RA]		[X]
		MA	Demand Responsive						P, [W], I	[X]	[X]	[RA]		
Frederick County Transit	Frederick	MD	Fixed Route Bus						P, I		[X]			
		MD	Demand Responsive						P, I		[X]			
Harford County Transportation	Abingdon	MD	Fixed Route Bus						P, I		[X]	T	X	
		MD	Demand Responsive						P, I		[X]	T	X	
Howard Area Transit Service (HATS)	Laurel	MD	Fixed Route Bus						P, W				X	
		MD	Demand Responsive						P, W				X	
Maryland Department of Transportation	Hanover	MD	Light Rail	X					P, W, I	X	X	RA		
		MD	Heavy or Rapid Rail	X					P, W, I	X	X	RA		
		MD	Fixed Route Bus	X	X	X			P, W, I	X	X	RA		
		MD	Demand Responsive						P, W, I	X	X	RA		
Montgomery County - Ride On	Rockville	MD	Fixed Route Bus	X	X	X			P, W, I	X	X	RA	X	

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
Ann Arbor Transportation Authority	Ann Arbor	MI	Fixed Route Bus	X	X	X			P, W, I			T		X
		MI	Demand Responsive						P, W, I			T		X
Grand Rapids Area Transit Authority	Grand Rapids	MI	Fixed Route Bus	X	X	X			P, W, I			[RA]		
		MI	Demand Responsive						P, W, I			[RA]		
Metro Transit	Minneapolis	MN	Light Rail	X					P, [W], I	X	X	RA, T		X
		MN	Fixed Route Bus	X	X	X			P, [W], I	X	X	RA, T		X
Bi-State Development Agency	St. Louis	MO	Light Rail	X					[P], [W], [I]			[RA], T	X	
		MO	Fixed Route Bus	X					[P], [W], [I]			[RA], T	X	X
		MO	Demand Responsive						[P], [W], [I]			[RA], T	X	X
Capital Area Transit	Raleigh	NC	Fixed Route Bus	X					P, I		X		X	
		NC	Demand Responsive						P, I		X		X	
Chapel Hill Transit	Chapel Hill	NC	Fixed Route Bus		[X]				P, W, I					
		NC	Demand Responsive						P, W, I					[X]
Charlotte Area Transit System (CATS) (Charlotte DOT)	Charlotte	NC	Fixed Route Bus	X	X	X			P, W, I			RA		X
		NC	Demand Responsive						P, W, I			RA		X
Durham Area Transit	Durham	NC	Fixed Route Bus	X	X	X			P, W, I		X	RA	X	X
		NC	Demand Responsive						P, W, I		X	RA	X	
Gastonia Transit	Gastonia	NC	Fixed Route Bus						P					
		NC	Demand Responsive						P					
Greensboro City Transportation Department	Greensboro	NC	Fixed Route Bus						P, [W], I		X			
		NC	Demand Responsive						P, [W], I		X			
High Point Transit	High Point	NC	Fixed Route Bus	X	X	X			P, I		X	RA		
		NC	Demand Responsive						P, I		X	RA		

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
Triangle Transit Authority	Research Triangle Park	NC	Fixed Route Bus		X				P, I		[X]			X
		NC	Demand Responsive						P, I		[X]			X
Winston-Salem Transit Authority	Winston-Salem	NC	Fixed Route Bus		X	X				[X]	[X]	RA		X
		NC	Demand Responsive							[X]	[X]	RA		X
Omaha Transit Authority	Omaha	NE	Fixed Route Bus		X	X			P, I			[RA]		X
Omaha Transit Authority	Omaha	NE	Demand Responsive						P, I			[RA]		X
Academy Lines Incorporated(NJ)	Hoboken	NJ	Fixed Route Bus					GPS	P, I		X			
New Jersey Transit Corporation(NJ)	Newark	NJ	Light Rail						P, W, I	X	X	[RA]	X	
		NJ	Fixed Route Bus	X	X	[X]			P, W, I	X	X	[RA]	X	
		NJ	Demand Responsive						P, W, I	X	X	[RA]	X	X
		NJ	Commuter Rail						P, W, I	X	X	[RA]	X	
Port Authority Trans-Hudson (PATH)	Jersey City	NJ	Heavy or Rapid Rail						P, W, I		X	RA, T	X	
Port Authority Transit Corporation	Lindenwold	NJ	Heavy or Rapid Rail											
Rockland Coaches Incorporated	Westwood	NJ	Fixed Route Bus						P, I					
Sun Tran	Albuquerque	NM	Fixed Route Bus	X					P, [W], I	[X]				
		NM	Demand Responsive						P, [W], I	[X]				X
Regional Transportation Commission/Citizens Area Transit	Las Vegas	NV	Fixed Route Bus	X	X	X			P, [W]			[RA]		
		NV	Demand Responsive						P, [W]			[RA]		X
Blue Bird Coach Lines/Niagara Scenic Bus Lines	N. Tonawanda	NY	Fixed Route Bus						P, I					
Capital District Transit Authority (CDTA)	Albany	NY	Fixed Route Bus		X	X			P, [W], I	[X]	X	RA		X
		NY	Demand Responsive						P, [W], I	[X]	X	RA		X
Central New York Regional Transit Authority	Syracuse	NY	Fixed Route Bus	X	X				P, W		X	RA		X
		NY	Demand Responsive						P, W		X	RA		X

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
Clarkstown Mini-Trans	Nanuet	NY	Fixed Route Bus						P, W, I					
Long Beach City	Long Beach	NY	Fixed Route Bus						P, W, I	X				
		NY	Demand Responsive						P, W, I	X				
Long Island Rail Road	Jamaica	NY	Commuter Rail						P, W, I	[X]		[RA]	X	
Metro-North Railroad MTA	New York	NY	Commuter Rail						P, I			[RA]	X	
MTA Long Island Bus	Garden City	NY	Fixed Route Bus		X				I		X	[RA]		
		NY	Demand Responsive						I		X	[RA]		X
Niagara Frontier Transportation Authority	Buffalo	NY	Light Rail	X		X			P, [W], I			RA		X
		NY	Fixed Route Bus	X	X	X			P, [W], I			RA		X
		NY	Demand Responsive						P, [W], I			RA		X
Putnam County Transit	Carmel	NY	Fixed Route Bus						P					
		NY	Demand Responsive						P					
Queens Surface Corporation	Flushing	NY	Fixed Route Bus						P		X			
Suffolk County	Yaphank	NY	Fixed Route Bus						P, [I]	[X]		[RA]		
		NY	Demand Responsive						P, [I]	[X]		[RA]		[X]
Village of Spring Valley Bus	Spring Valley	NY	Fixed Route Bus						P, I					
Westchester County	Mt. Vernon	NY	Fixed Route Bus	X	X	X			P, [W], I	X	[X]	[RA], T		[X]
		NY	Demand Responsive						P, [W], I	X	[X]	[RA], T		
COTA	Columbus	OH	Fixed Route Bus	X	X	X			P, W, I	[X]		RA, T	X	
		OH	Demand Responsive						P, W, I	[X]		RA, T	X	
Greater Cleveland Regional Transit	Cleveland	OH	Light Rail	[X]	X	X			P, W, I			[RA], T	X	[X]
		OH	Heavy or Rapid Rail	[X]	X	X			P, W, I			[RA], T	X	[X]
		OH	Fixed Route Bus	[X]	X	X			P, W, I			[RA], T	X	X

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
		OH	Demand Responsive						P, W, I			[RA], T	X	X
Laketran	Grand River	OH	Fixed Route Bus		X				P			T		
		OH	Demand Responsive						P			T		[X]
Lorain County Transit	Lorain	OH	Fixed Route Bus						P			T		
		OH	Demand Responsive						P			T		
Metro Regional Transit Authority	Akron	OH	Fixed Route Bus	X	X	X			P, I		X	RA		
		OH	Demand Responsive						P, I		X	RA		X
Miami Valley Regional Transit	Dayton	OH	Fixed Route Bus	X	X	X			P, [W], I					X
		OH	Demand Responsive						P, [W], I					X
Southwest Ohio Regional Transit Authority (SORTA)	Cincinnati	OH	Fixed Route Bus	X	X	X			P, W, I			RA	X	X
		OH	Demand Responsive						P, W, I			RA	X	X
Springfield City Area Transit	Springfield	OH	Fixed Route Bus	X					[P], I					
		OH	Demand Responsive						[P], I					
Toledo Area Regional Transit Authority (TARTA)	Toledo	OH	Fixed Route Bus	X					[P], [W]			[RA]		X
		OH	Demand Responsive						[P], [W]			[RA]		X
Western Reserve Transit Authority	Youngstown	OH	Fixed Route Bus	[X]					P			[RA]		
		OH	Demand Responsive						P			[RA]		
Central Oklahoma Transit	Oklahoma City	OK	Fixed Route Bus						P, [W], I			[RA]		
		OK	Demand Responsive						P, [W], I			[RA]		[X]
Tulsa Transit	Tulsa	OK	Fixed Route Bus	[X]	X				P, W			T		
		OK	Demand Responsive						P, W			T		
Tri-Met	Portland	OR	Light Rail	X					P, W, I	[X]		RA, T	X	
		OR	Fixed Route Bus	X	X	X			P, W, I	[X]		RA, T	X	X

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
		OR	Demand Responsive						P, W, I	[X]		RA, T	X	X
Access Transportation Systems Incorporated	Pittsburgh	PA	Demand Responsive											
Beaver County Transit Authority	Rochester	PA	Fixed Route Bus	[X]	X	X			P, W, [I]	[X]	[X]	[RA], T		X
		PA	Demand Responsive						P, W, [I]	[X]	[X]	[RA], T		X
Cumberland-Dauphin-Harrisburg Transit Authority	Harrisburg	PA	Fixed Route Bus		X				P, W, I		X	[RA]		
		PA	Demand Responsive						P, W, I		X	[RA]		
G G & C Bus Company Incorporated	Washington	PA	Fixed Route Bus		X				P, [I]			[RA]		[X]
		PA	Demand Responsive						P, [I]			[RA]		[X]
Lackawanna County Transit System (COLTS)	Scranton	PA	Fixed Route Bus						P, [W], I			[RA]		X
Lehigh and Northampton	Allentown	PA	Fixed Route Bus		X				P, W, I			[RA]		
		PA	Demand Responsive						P, W, I			[RA]		X
Luzerne County Transportation	Kingston	PA	Fixed Route Bus						P, W, I			[RA]		
Port Authority of Allegheny County	Pittsburgh	PA	Light Rail						P, I	[X]	X	[RA]	X	
		PA	Fixed Route Bus	X	X				P, I	[X]	X	[RA]	X	
Southeastern Pennsylvania Transportation Authority (SEPTA)	Philadelphia	PA	Light Rail						P, W, I			RA		X
		PA	Heavy or Rapid Rail						P, W, I			RA		
		PA	Fixed Route Bus		X	X			P, W, I			RA		X
		PA	Demand Responsive						P, W, I			RA		X
		PA	Commuter Rail						P, W, I			RA		
Westmoreland County Transit	Greensburg	PA	Fixed Route Bus		X				P			[RA]		
Rhode Island Public Transit Authority	Providence	RI	Fixed Route Bus		[X]	[X]			P, W, I			RA, T		[X]
		RI	Ferry Boat						P, W, I			RA, T		
		RI	Demand Responsive						P, W, I			RA, T		

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
Charleston Transit Administration	Charleston	SC	Fixed Route Bus	X	X				P, W, I					X
		SC	Demand Responsive						P, W, I					X
Greenville Transit Authority (GTA)	Greenville	SC	Fixed Route Bus						P, W, I		X			
		SC	Demand Responsive						P, W, I		X			
Transit Management of Spartanburg	Spartanburg	SC	Fixed Route Bus			X			P, I					
Knoxville Transportation Authority	Knoxville	TN	Fixed Route Bus	X					P, I			RA	X	
		TN	Demand Responsive						P, I			RA	X	[X]
Memphis Area Transit Authority	Memphis	TN	Light Rail						P, W, I			RA	X	
		TN	Fixed Route Bus	X	X	X			P, W, I			RA	X	
		TN	Demand Responsive						P, W, I			RA	X	
Metropolitan Transit Authority	Nashville	TN	Fixed Route Bus	X	X	X		transmission lock out key	P, W, I			[RA]	X	[X]
		TN	Demand Responsive						P, W, I			[RA]	X	[X]
Austin Capital Metropolitan Transportation Authority	Austin	TX	Fixed Route Bus	X	X				P, [W], I			RA		[X]
		TX	Demand Responsive						P, [W], I			RA		[X]
Dallas Area Rapid Transit (DART)	Dallas	TX	Light Rail	[X]		[X]			P, [W], I		X	[RA]		
		TX	Fixed Route Bus	[X]	X	[X]			P, [W], I		X	[RA]		
		TX	Demand Responsive						P, [W], I		X	[RA]		X
		TX	Commuter Rail	[X]		[X]			P, [W], I		X	[RA]		
Denton City Manager	Denton	TX	Fixed Route Bus						P, [W], [I]			[RA], T		
		TX	Demand Responsive						P, [W], [I]			[RA], T		
Fort Worth Transportation Authority (The T)	Fort Worth	TX	Fixed Route Bus						P, [W]		X	[RA], T		
		TX	Demand Responsive						P, [W]		X	[RA], T		
		TX	Commuter Rail						P, [W]		X	[RA], T		

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
Grand Prairie City	Grand Prairie	TX	Demand Responsive						P			T		
Lewisville Dial-A-Ride	Lewisville	TX	Demand Responsive						P, W		[X]			
McAllen Express	Weslaco	TX	Fixed Route Bus	[X]	[X]				P, I	X				
		TX	Demand Responsive						P, I	X				
Mesquite City Transit	Mesquite	TX	Demand Responsive						P					
Metro Transit Authority	Houston	TX	Light Rail	X	X	X			P, W, I			RA		X
		TX	Fixed Route Bus	X	X	X			P, W, I			RA		X
		TX	Demand Responsive						P, W, I			RA		X
Sun Metro-El Paso City	El Paso	TX	Fixed Route Bus		X	X			P, [W], I			RA		X
		TX	Demand Responsive						P, [W], I			RA		X
VIA Metropolitan Transit	San Antonio	TX	Fixed Route Bus	X	X	X			P, I			[RA]		X
		TX	Demand Responsive						P, I			[RA]		X
Utah Transit Authority	Salt Lake City	UT	Light Rail		X	X			P, W, I			RA, T		X
		UT	Fixed Route Bus		X	X			P, W, I			RA, T		X
		UT	Demand Responsive						P, W, I			RA, T		X
Fairfax Connector Bus System	Fairfax	VA	Fixed Route Bus						P, W, I	X	X	RA		
		VA	Demand Responsive						P, W, I	X	X	RA		
Greater Richmond Transit Company	Richmond	VA	Fixed Route Bus	X	X	X			P		X	[RA]		
		VA	Demand Responsive						P		X	[RA]		[X]
Hampton Roads Transit	Hampton	VA	Fixed Route Bus	X	X				P			RA		X
		VA	Ferry Boat						P			RA		
Petersburg Area Transit	Petersburg	VA	Fixed Route Bus	[X]		[X]			P, I	X	X	[RA]		[X]
		VA	Demand Responsive						P, I	X	X	[RA]		

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
Potomac and Rappahannock Transportation Commission	Woodbridge	VA	Fixed Route Bus					Emergency button to change head sign	P, I		[X]	RA	X	
		VA	Demand Responsive						P, I		[X]	RA	X	
Clark County Public Transportation Benefit Area Authority	Vancouver	WA	Fixed Route Bus	X	X	X			P, [W], [I]			RA, T	X	
		WA	Demand Responsive						P, [W], [I]			RA, T	X	
Everett Transit	Everett	WA	Fixed Route Bus	X	X				P, W, I	X		[RA]		
		WA	Demand Responsive						P, W, I	X		[RA]		
King County Metro	Seattle	WA	Fixed Route Bus	X	X				P, W, I	X	[X]	RA	X	X
Kitsap Transit	Bremerton	WA	Fixed Route Bus						P, W, I		[X]	RA	X	
		WA	Ferry Boat						P, W, I		[X]	RA	X	
		WA	Demand Responsive						P, W, I		[X]	RA	X	X
Pierce County Ferry Operations	Tacoma	WA	Ferry Boat						P, I					
Pierce Transit	Lakewood	WA	Fixed Route Bus		X				P, [W], I	X		RA		
		WA	Demand Responsive						P, [W], I	X		RA		
Seattle Monorail Transit	Seattle	WA	Commuter Rail						P, W, I					
Snohomish County Public Transportation	Everett	WA	Fixed Route Bus	X	X						[X]	RA		
		WA	Demand Responsive								[X]	RA		
Snohomish County Senior Services	Mukilteo	WA	Demand Responsive						P					
Sound Transit	Seattle	WA	Light Rail						P, [W], I	[X]	X	RA		
		WA	Fixed Route Bus						P, [W], I	[X]	X	RA		
		WA	Commuter Rail						P, [W], I	[X]	X	RA		[X]
Washington State Ferries	Seattle	WA	Ferry Boat						P, W, I	X	[X]	RA	X	
Whatcom Transportation Authority	Bellingham	WA	Fixed Route Bus		X				P, [W], [I]			[RA]		

Agency	City	State	Service	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Security Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminals
		WA	Demand Responsive						P, [W], [I]			[RA]		
Belle Urban System-Racine	Racine	WI	Fixed Route Bus	X	X	X			P, W, I			RA		X
		WI	Demand Responsive						P, W, I			RA		
Kenosha Transit	Kenosha	WI	Light Rail						P					
		WI	Fixed Route Bus	X		X			P					
		WI	Demand Responsive						P					
Waukesha City Metro Transit	Waukesha	WI	Fixed Route Bus		X	X			P, W, I	X	X		X	X
		WI	Demand Responsive						P, W, I	X	X		X	[X]

4 APTS DEPLOYMENT BY TRANSIT AGENCY OUTSIDE OF THE UNITED STATES' 78 LARGEST METROPOLITAN AREAS

Tables 4-1 and 4-2 present the information collected by the Volpe team for transit agencies residing in jurisdictions of 50,000 persons or more within the 78 largest metropolitan areas in the U.S. As indicated in the legend, entries enclosed by brackets signify elements either in the implementation or planning stage and are expected to be operational by the year 2005. All other entries indicate operational elements.

The agencies are arranged alphabetically, first by state abbreviation and then by agency name. The tables list the number of vehicles or vessels operated by each agency (directly or by contract) in each service type. Also, where possible and appropriate, the number of vehicles, vessels, stations, or terminals currently equipped with each APTS technology, or which will be so equipped by 2005, are included. Where numbers are not available or applicable, letters signify that the agency has deployed, or will deploy, that technology.

Table 4-1. Small metro area agency deployments of technologies

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Anchorage Public Transportation (People Mover)	Anchorage	Fixed Route Bus	AK	50		[X]	DIG, TR		[X]	[X]	[X]		X	[X]
		Demand Responsive	AK	32	[MS], [SC]	[X]	DIG, TR		[X]	[X]	[X]		X	
MACS and VANTRAN	Fairbanks	Fixed Route Bus	AK	7		[X]	DIG				[X]		[X]	
		Demand Responsive	AK	4		[X]	DIG				[X]		[X]	
Anniston Express	Anniston	Fixed Route Bus	AL	3			DIG							
		Demand Responsive	AL	3			DIG							
Autauga County Rural Transportation	Prattville	Demand Responsive	AL	12										
East Alabama Regional Planning and Development Commission	Montgomery	Fixed Route Bus	AL	6			DIG							
		Demand Responsive	AL	3			DIG							
Huntsville Transit	Huntsville	Fixed Route Bus	AL	11	[SC]	[X]	TR		[X]	[X]	[X]		[X]	
		Demand Responsive	AL	14	[SC]	[X]	TR		[X]	[X]	[X]		[X]	
Lee-Russell Council of Governments	Opelika	Fixed Route Bus	AL	6										
		Demand Responsive	AL	13										
Metro Transit System	Mobile	Fixed Route Bus	AL	35	[MS]	[X]	[DIG], TR	F, A		[X]	[X]		[X]	
		Demand Responsive	AL	5		[X]	[DIG], TR	F, A		[X]	[X]		[X]	
Montgomery Area Transit System	Montgomery	Fixed Route Bus	AL	21		X	DIG				X		[X]	[X]
		Demand Responsive	AL	29			DIG						[X]	[X]
Northwest Alabama Council of Local Governments	Muscle Shoals	Demand Responsive	AL	33									X	
Tuscaloosa Transit Authority	E. Tuscaloosa	Fixed Route Bus	AL	6	[MS], [SC]	X							X	
		Demand Responsive	AL	6		X							X	
Wiregrass Transit Authority	Dothan	Demand Responsive	AL	15							X			

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Fort Smith Public Transit	Fort Smith	Fixed Route Bus	AR	13	MS, SC		DIG, TR		[X]	[X]		[X]	[X]	[X]
		Demand Responsive	AR	6	MS, SC		DIG, TR		[X]	[X]		[X]	[X]	
Intra City Transit	Hot Springs	Fixed Route Bus	AR	5	[MS]	[X]	DIG, TR			[X]		[X]		
		Demand Responsive	AR	5	[MS]	[X]	DIG, TR			[X]	[X]	[X]		
Ozark Transit Authority	Springdale	Fixed Route Bus	AR	1			DIG, TR							
		Demand Responsive	AR	21		[X]	DIG, TR							
University of Arkansas (Razorback Transit)	Fayetteville	Fixed Route Bus	AR	14										
		Demand Responsive	AR	3										
Coconino County Community Transportation Services	Flagstaff	Fixed Route Bus	AZ	10										
		Demand Responsive	AZ	7										
Benicia Transit	Benicia	Fixed Route Bus	CA	7			DIG						X	
		Demand Responsive	CA	6			DIG						X	
Camarillo Area Transit	Camarillo	Fixed Route Bus	CA	1	SC	X	DIG		X					
		Demand Responsive	CA	3	SC		DIG		X		[X]			
Chico Area Transit System	Chico	Fixed Route Bus	CA	20	MS		TR						X	
City of El Monte Transportation Services Division	El Monte	Fixed Route Bus	CA	9							X	X		
		Demand Responsive	CA	6		X					X	X		
City of Riverside Transportation	Riverside	Demand Responsive	CA	24		X				X	[X]		X	
Davis Community Transit	Davis	Demand Responsive	CA	2			DIG							
Emery-Go-Round	Emeryville	Fixed Route Bus	CA	9		X		A	X	X				
Foothill Transit	West Covina	Fixed Route Bus	CA	306	MS, [SC]	[X]	DIG, TR	[F], [A]		[X]	[X]			[X]
Glendale Transit	Glendale	Fixed Route Bus	CA	35		X	TR	A			X	X		X
		Demand Responsive	CA	6	MS		TR	A				X		

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Healdsburg Transit	Healdsburg	Fixed Route Bus	CA	1										
		Demand Responsive	CA	1										
Lodi Transit	Lodi	Fixed Route Bus	CA	9			DIG, TR							
		Demand Responsive	CA	16			DIG, TR							
Lompoc Transit	Lompoc	Fixed Route Bus	CA	8			DIG						[X]	
		Demand Responsive	CA	3		[X]	DIG						[X]	
Mendocino Transit Authority	Ukiah	Fixed Route Bus	CA	23			[DIG], [TR]						X	
		Demand Responsive	CA	12			[DIG], [TR]						X	
Merced County Transit (The Bus)	Merced	Fixed Route Bus	CA	18	[MS], [SC]	[X]	TR		[X]	[X]	[X]			
		Demand Responsive	CA	15	[MS], [SC]	[X]	TR		[X]	[X]	[X]			
Modesto Area Express	Modesto	Fixed Route Bus	CA	49		[X]			[X]					
		Demand Responsive	CA	11							X			
Omnitrans	San Bernardino	Fixed Route Bus	CA	189	MS, [SC]	[X]	[DIG]		X	[X]	[X]	[X]		
		Demand Responsive	CA	100	[SC]	[X]	[DIG]			[X]	[X]	[X]		
Petaluma Transit	Petaluma	Fixed Route Bus	CA	8									X	
		Demand Responsive	CA	5									X	
Redding Area Bus Authority	Redding	Fixed Route Bus	CA	22	MS		TR							
		Demand Responsive	CA	19			TR							
Rio Vista Transit	Rio Vista	Demand Responsive	CA	1			DIG							
Riverside Transit Agency	Riverside	Fixed Route Bus	CA	235	MS	[X]	DIG		X		[X]		X	
Roseville Transit	Roseville	Fixed Route Bus	CA	22	[MS]	[X]		[F], [A]	X	[X]	[X]			[X]
		Demand Responsive	CA	11	[MS]	[X]		[F], [A]	X	[X]	[X]			[X]
San Benito County Ride Share	Hollister	Fixed Route Bus	CA	9								[X]		

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		Demand Responsive	CA	15								[X]		
San Joaquin Regional Transit District	Stockton	Fixed Route Bus	CA	128	MS	X	DIG, TR		X	X	X		X	[X]
		Demand Responsive	CA	25	MS	X	DIG, TR			[X]			X	
San Luis Obispo Regional Transit Authority	San Luis Obispo	Fixed Route Bus	CA	18										
		Demand Responsive	CA	11							X			
Santa Barbara Metropolitan Transit District	Santa Barbara	Fixed Route Bus	CA	92	MS									
Santa Clara Valley Transportation Authority	San Jose	Light Rail	CA	71		[X]			[X]	X	X			X
		Fixed Route Bus	CA	491		X			X		X			[X]
Santa Maria Area Transit	Santa Maria	Fixed Route Bus	CA	15								X	[X]	[X]
		Demand Responsive	CA	8							X	X	[X]	
Stanislaus Regional Transit	Modesto	Fixed Route Bus	CA	6		[X]				[X]	X		X	
		Demand Responsive	CA	5		[X]					X		X	
Sunline Transit Agency	Thousand Palms	Fixed Route Bus	CA	45			TR					[X]		
		Demand Responsive	CA	25			TR					[X]		
Thousand Oaks Transit	Thousand Oaks	Fixed Route Bus	CA	6	SC	X	DIG		X	X				
		Demand Responsive	CA	9			DIG							
Tri-Delta Transit	Antioch	Fixed Route Bus	CA	60		X	DIG		[X]	[X]			X	[X]
		Demand Responsive	CA	20		[X]	DIG				X		X	
Union City Transit	Union City	Fixed Route Bus	CA	15			DIG, TR							
		Demand Responsive	CA	5			DIG, TR							
UniTrans	Davis	Fixed Route Bus	CA	45			TR					X		
		Demand Responsive	CA	3			TR					X		
Vacaville City Coach	Vacaville	Fixed Route Bus	CA	12		[X]								

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		Demand Responsive	CA	5		[X]								
Ventura County Transportation Commission	Ventura	Fixed Route Bus	CA	104	SC	X			X	X	X	X	X	
		Demand Responsive	CA	55	SC	X			X			X	X	
Yolo County Transportation District (Yolobus)	Woodland	Fixed Route Bus	CA	37		[X]	DIG, TR			[X]				
		Demand Responsive	CA	8		[X]	DIG, TR				[X]			
Yuba-Sutter Transit	Marysville	Fixed Route Bus	CA	22			TR							
		Demand Responsive	CA	15			TR							
Avon/Beaver Creek Transit	Avon	Fixed Route Bus	CO	12			DIG							
City of Pueblo Transit	Pueblo	Fixed Route Bus	CO	16			DIG, TR							
		Demand Responsive	CO	8			DIG, TR							
Eagle County Regional Transportation Authority	Gypsum	Fixed Route Bus	CO	28			DIG, TR							
		Demand Responsive	CO	2			DIG, TR							
Grand Valley Transit	Grand Junction	Fixed Route Bus	CO	13							X		[X]	
		Demand Responsive	CO	6									[X]	
Roaring Fork Transportation Authority	Aspen	Fixed Route Bus	CO	77			TR			X				
		Demand Responsive	CO	1			TR							
Springs Transit	Colorado Springs	Fixed Route Bus	CO	45	MS, [SC]	[X]	DIG, TR	[F]		[X]	[X]			
Transfort Dial-A-Ride	Fort Collins	Fixed Route Bus	CO	24	MS	X	DIG, TR				[X]			
		Demand Responsive	CO	19	MS	X	DIG, TR			X	X			
Connecticut Limousine	Milford	Fixed Route Bus	CT	10	MS, SC	X	DIG, TR					X	X	
		Demand Responsive	CT	50	MS, SC	X	DIG, TR					X	X	
Dattco	New Britain	Fixed Route Bus	CT	6	MS, SC								X	
Greater Bridgeport Transit Authority	Bridgeport	Fixed Route Bus	CT	58	[MS]	[X]			[X]	[X]	X			

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		Demand Responsive	CT	24	[MS]	[X]				[X]	X			
Housatonic Area Regional Transit	Danbury	Fixed Route Bus	CT	28			DIG							[X]
		Demand Responsive	CT	36		[X]	DIG			[X]	[X]			
Milford Transit District	Milford	Fixed Route Bus	CT	10		[X]				[X]			X	
		Demand Responsive	CT	16		[X]				[X]			X	
New Milford Senior Center	New Milford	Fixed Route Bus	CT	1									X	
		Demand Responsive	CT	1									X	
Northeast Transportation Company	Waterbury	Fixed Route Bus	CT	39	MS								X	
		Demand Responsive	CT	33									X	
Southeast Area Transit District	Norwich	Fixed Route Bus	CT	25	MS							X	X	
		Demand Responsive	CT	4								X	X	
The New Britain Transportation Company	Berlin	Fixed Route Bus	CT	9	MS, SC								[X]	
Valley Transit District	Derby	Demand Responsive	CT	16			DIG, TR							
Delaware Transit Corporation (DART First State)	Dover	Fixed Route Bus	DE	182	[MS], [SC]	X	DIG, TR	[F], [A]	[X]	X	X	X	[X]	[X]
		Demand Responsive	DE	220	[MS], [SC]	X	DIG, TR	[F], [A]		X	X	X	[X]	
Council on Aging of Martin County	Stuart	Fixed Route Bus	FL	1		[X]	DIG, TR				[X]			
		Demand Responsive	FL	37		[X]	DIG, TR				[X]			
Escambia County Area Transit	Pensacola	Fixed Route Bus	FL	38	MS									
Indian River Council on Aging	Vero Beach	Fixed Route Bus	FL	9			DIG, TR						[X]	
		Demand Responsive	FL	17			DIG, TR						[X]	
Lee County Transit	Ft Myers	Fixed Route Bus	FL	53	MS	[X]	TR		[X]		[X]			
		Demand Responsive	FL	38	MS	[X]	TR				[X]			
Polk County Transit Services Division	Bartow	Fixed Route Bus	FL	10			TR				X		X	

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		Demand Responsive	FL	6			TR				X		X	
Regional Transit System	Gainesville	Fixed Route Bus	FL	106		[X]	DIG, TR	[F], [A]		[X]	[X]			[X]
Ride Solution	Palatka	Demand Responsive	FL	29		X					X		X	
Space Coast Area Transit	Cocoa	Fixed Route Bus	FL	18	[MS], [SC]		TR						X	
		Demand Responsive	FL	28			TR						X	
SunTran	Ocala	Fixed Route Bus	FL	6			DIG							
		Demand Responsive	FL	2			DIG							
Volusia County Transportation Authority (VOTRAN)	South Daytona	Fixed Route Bus	FL	53	[SC]	[X]	DIG, TR		[X]	X	[X]			
		Demand Responsive	FL	58	[SC]	[X]	DIG, TR			[X]	[X]			
Albany Transit System	Albany	Fixed Route Bus	GA	7									X	
		Demand Responsive	GA	4									X	
Augusta Public Transit	Augusta	Fixed Route Bus	GA	23	MS, SC		DIG, TR					[X]		
		Demand Responsive	GA	6		[X]	DIG, TR				[X]	[X]		
Chatham Area Transit Authority	Savannah	Fixed Route Bus	GA	51	MS	[X]	[DIG], TR				[X]		X	
		Ferry Boat	GA	3			[DIG], TR						X	
Gwinnett County Board of Commissioners	Lawrenceville	Fixed Route Bus	GA	62								X		
		Demand Responsive	GA	6								X		
METRA Transit System	Columbus	Fixed Route Bus	GA	17	MS, SC		DIG, TR							[X]
		Demand Responsive	GA	5	MS, SC	[X]	DIG, TR				[X]			[X]
University of Georgia (Campus Transit)	Athens	Fixed Route Bus	GA	45		[X]	TR		X		[X]	X		
		Demand Responsive	GA	5		[X]	TR				[X]	X		
Bettendorf Transit System	Bettendorf	Fixed Route Bus	IA	7			DIG, TR							X
		Demand Responsive	IA	1			DIG, TR							[X]

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Coralville Transit System	Coralville	Fixed Route Bus	IA	9	MS		[TR]							
		Demand Responsive	IA	2		X	[TR]				X			
Davenport CitiBus	Davenport	Fixed Route Bus	IA	20										
Des Moines Metro Transit Authority	Des Moines	Fixed Route Bus	IA	116	MS								[X]	[X]
		Demand Responsive	IA	26							[X]		[X]	
Dubuque-Keyline Transit	Dubuque	Fixed Route Bus	IA	14	[SC]		DIG		X				X	
		Demand Responsive	IA	15	[SC]	X	DIG				X		X	
Five Seasons Transportation	Cedar Rapids	Fixed Route Bus	IA	40	[MS]	X	DIG, TR			X	X		[X]	
		Demand Responsive	IA	17		X	DIG, TR			X	X		[X]	
Iowa City Transit	Iowa City	Fixed Route Bus	IA	22	MS, [SC]	X	DIG, TR			X				
		Demand Responsive	IA	10		X	DIG, TR			X	X			
Metropolitan Transit Authority of Black Hawk County	Waterloo	Fixed Route Bus	IA	19			DIG, TR							
		Demand Responsive	IA	20			DIG, TR							
Sioux City Transit System	Sioux City	Fixed Route Bus	IA	14		X	[DIG], TR		[X]	[X]			[X]	[X]
		Demand Responsive	IA	10		[X]	[DIG], TR			[X]			[X]	
Siouxland Regional Transit System	Sioux City	Demand Responsive	IA	56		[X]	DIG, TR				[X]	[X]		
University of Iowa, CAMBUS	Iowa City	Fixed Route Bus	IA	28			TR							
		Demand Responsive	IA	4			TR							
Pocatello Regional Transit	Pocatello	Fixed Route Bus	ID	14	[SC]		DIG, TR						X	[X]
		Demand Responsive	ID	20	[MS], [SC]	[X]	DIG, TR				[X]		X	
Targhee Regional Public Transit Authority	Idaho Falls	Fixed Route Bus	ID	4			TR							
Treasure Valley Transit	Boise	Fixed Route Bus	ID	9			DIG						[X]	
		Demand Responsive	ID	6			DIG						[X]	

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Valley Ride	Boise	Fixed Route Bus	ID	39			TR							
		Demand Responsive	ID	8			TR							
Bloomington-Normal Public Transit System	Bloomington	Fixed Route Bus	IL	16										
		Demand Responsive	IL	5										
Champaign-Urbana Mass Transit District	Urbana	Fixed Route Bus	IL	89		[X]	TR		[X]	X	X			
		Demand Responsive	IL	5		[X]	TR			X	X			
City of East Dubuque	East Dubuque	Demand Responsive	IL	2			DIG						X	
City of Pekin Municipal Bus	Pekin	Fixed Route Bus	IL	2	SC									
Greater Peoria Transit (CityLink)	Peoria	Fixed Route Bus	IL	56	[SC]	X			[X]		[X]			
		Demand Responsive	IL	25		X				X	X			
River Valley Metro Mass Transit District	Kankakee	Fixed Route Bus	IL	11	[MS]									
		Demand Responsive	IL	4	[MS]									
Rock Island County Mass Transit (METROLINK)	Rock Island	Fixed Route Bus	IL	59		X	DIG		X	X	X		X	[X]
		Ferry Boat	IL	2		X	DIG		X	[X]	X		X	
Rockford Mass Transit District	Rockford	Fixed Route Bus	IL	39	MS	[X]	DIG				[X]			
		Demand Responsive	IL	25		[X]	DIG				X			
Springfield Mass Transit District	Springfield	Fixed Route Bus	IL	50										
		Demand Responsive	IL	15										
Bloomington Public Transportation Corporation	Bloomington	Fixed Route Bus	IN	37			[DIG], TR				[X]			
		Demand Responsive	IN	6		[X]	[DIG], TR				[X]			
City of Anderson Transportation	Anderson	Fixed Route Bus	IN	8										
		Demand Responsive	IN	10										
Fort Wayne Public Transportation	Fort Wayne	Fixed Route Bus	IN	32	MS, SC	X	DIG, TR						X	

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Corporation (Citilink)		Demand Responsive	IN	12		X	DIG, TR						X	
Kokomo/Howard County Governmental Coordinating Council	Kokomo	Demand Responsive	IN	24		[X]	DIG, TR		[X]	[X]	X		[X]	
Metropolitan Evansville Transit System	Evansville	Fixed Route Bus	IN	27			DIG			X			X	
		Demand Responsive	IN	15			DIG			X	X		X	
Michiana Area Council of Government	South Bend	Fixed Route Bus	IN	5		X	DIG							
		Demand Responsive	IN	38		[X]	DIG				X			
Muncie Indiana Transit System	Muncie	Fixed Route Bus	IN	33	MS	X			X	X	X			[X]
		Demand Responsive	IN	14	MS	X				X	X			
South Bend Public Transportation	South Bend	Fixed Route Bus	IN	52	MS, [SC]		[DIG]			X				
		Demand Responsive	IN	8			[DIG]			X				
Terre Haute Transit Utility	Terre Haute	Fixed Route Bus	IN	6		[X]				[X]	[X]	X	X	
		Demand Responsive	IN	6		[X]				[X]	[X]	X	X	
City of Olathe	Olathe	Demand Responsive	KS	3										
Johnson County Transit	Olathe	Fixed Route Bus	KS	37	[MS]	[X]	DIG, TR		[X]	[X]			X	
		Demand Responsive	KS	38	[MS]	X	DIG, TR			X	X		X	
Topeka Metropolitan Transit	Topeka	Fixed Route Bus	KS	26									X	
		Demand Responsive	KS	21									X	
Ashland Bus System	Ashland	Fixed Route Bus	KY	4										
		Demand Responsive	KY	2										
Henderson Area Rapid Transit	Henderson	Fixed Route Bus	KY	5										
		Demand Responsive	KY	3										
Owensboro Transit System	Owensboro	Fixed Route Bus	KY	6			DIG			X				
		Demand Responsive	KY	3		X	DIG				X			

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Transit Authority of Northern Kentucky	Ft. Wright	Fixed Route Bus	KY	109	MS	X	TR		[X]	X	X	X		
		Demand Responsive	KY	23	MS	X	TR			X	X	X		
CityBus of Greater Lafayette	Lafayette	Fixed Route Bus	LA	18	MS	[X]	TR			[X]	[X]	[X]		
		Demand Responsive	LA	5		[X]	TR			[X]	[X]	[X]		
Lake Charles Transit System	Lake Charles	Fixed Route Bus	LA	8			TR					X	[X]	[X]
		Demand Responsive	LA	2			TR					X	[X]	
Monroe Transit System	Monroe	Fixed Route Bus	LA	20			DIG							
		Demand Responsive	LA	4			DIG				[X]			
Shreveport Transit System	Shreveport	Fixed Route Bus	LA	45	MS	[X]	DIG, TR			[X]	X			
		Demand Responsive	LA	12		[X]	DIG, TR			[X]	X			
Terrebonne Parish Good Earth Transit System	Houma	Fixed Route Bus	LA	6			TR							
		Demand Responsive	LA	1			TR							
Berkshire Regional Transit Authority	Pittsfield	Fixed Route Bus	MA	16									X	X
		Demand Responsive	MA	21									X	
Cape Ann Transportation Authority	Gloucester	Fixed Route Bus	MA	20		X				[X]	[X]		X	
		Demand Responsive	MA	11		X				[X]	[X]		X	
Cape Cod Regional Transit Authority	Dennis	Fixed Route Bus	MA	25	MS, SC	X		[F], [A]		X	X		X	
		Demand Responsive	MA	65	MS, SC	X		[F], [A]		X	X		X	
Lowell Regional Transit Authority	Lowell	Fixed Route Bus	MA	40	MS								X	
		Demand Responsive	MA	34									X	
Montachusett Regional Transit Authority	Fitchburg	Fixed Route Bus	MA	24			[DIG]						X	
		Demand Responsive	MA	96		X	[DIG]		X		X		X	
Southeastern Regional Transit Authority	New Bedford	Fixed Route Bus	MA	46	[MS]	[X]	DIG, TR		[X]	[X]			[X]	

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		Demand Responsive	MA	20	[MS]	[X]	DIG, TR		[X]	[X]			[X]	
Allegany County Transit	Cumberland	Fixed Route Bus	MD	9										
Annapolis Transit	Annapolis	Fixed Route Bus	MD	18			DIG, TR							
		Demand Responsive	MD	4			DIG, TR							
TransIT Services of Frederick County	Frederick	Fixed Route Bus	MD	22									X	
		Demand Responsive	MD	31									X	
Washington County Transportation Department	Hagerstown	Fixed Route Bus	MD	14	[SC]		TR						[X]	
		Demand Responsive	MD	4			TR						[X]	
Bangor Area Comprehensive Transportation System	Bangor	Fixed Route Bus	ME	14										
Casco Bay Island Transit District	Portland	Ferry Boat	ME	5		[X]	DIG		X		[X]			
Coastal Trans	Rockland	Fixed Route Bus	ME	2									[X]	
		Demand Responsive	ME	20									[X]	
Downeast Transportation	Ellsworth	Fixed Route Bus	ME	17		X	DIG		[X]		X			
Greater Portland Transit District	Portland	Fixed Route Bus	ME	24			TR						[X]	
Kennebec Valley Community Action Program	Waterville	Fixed Route Bus	ME	4									X	
		Demand Responsive	ME	18									X	
South Portland Bus Service0	South Portland	Fixed Route Bus	ME	7		[X]	DIG			[X]	[X]			[X]
The Regional Transportation Program	Portland	Demand Responsive	ME	33							X		X	
York County Community Action Corp.	Sanford	Demand Responsive	ME	24									X	
Battle Creek Transit	Battle Creek	Fixed Route Bus	MI	16	MS	X	TR				X			
		Demand Responsive	MI	12	MS	X	TR				X			
Blue Water Area Transit	Port Huron	Fixed Route Bus	MI	12			TR				X		[X]	
		Demand Responsive	MI	27			TR				X		[X]	

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Capital Area Transportation Authority	Lansing	Fixed Route Bus	MI	104	MS		DIG, TR		[X]				X	
		Demand Responsive	MI	95	MS		DIG, TR		[X]				X	
Jackson Transportation Authority	Jackson	Fixed Route Bus	MI	13		X								
		Demand Responsive	MI	45		X				X	X			
Kalamazoo Metro Transit System	Kalamazoo	Fixed Route Bus	MI	44		[X]	[DIG], TR						[X]	
		Demand Responsive	MI	7		[X]	[DIG], TR						[X]	
Macatawa Area Express (MAX)	Holland	Fixed Route Bus	MI	6										
		Demand Responsive	MI	11										
Mass Transportation Authority	Flint	Fixed Route Bus	MI	141			TR							
		Demand Responsive	MI	154			TR							
Muskegon Area Transit	Muskegon	Fixed Route Bus	MI	18			TR							
		Demand Responsive	MI	6			TR				X			
Niles Dial-A-Ride	Niles	Demand Responsive	MI	8										
Twin Cities Area Transportation Authority	Benton Harbor	Fixed Route Bus	MI	2		X								
		Demand Responsive	MI	17		X								
Duluth Transit Authority	Duluth	Fixed Route Bus	MN	72	[SC]	X	DIG, TR		X	X	X	X	[X]	
		Demand Responsive	MN	10		X	DIG, TR			X	X	X	[X]	
Mankato Heartland Express	Mankato	Fixed Route Bus	MN	13	MS		DIG, TR							
		Demand Responsive	MN	3			DIG, TR							
Metro Mobility	St. Paul	Demand Responsive	MN	250			DIG, TR							
Moorhead Metro Area Transit	Moorhead	Fixed Route Bus	MN	12	MS, SC		TR				X	[X]	X	
		Demand Responsive	MN	2		X	TR			X	X	[X]	X	
St. Cloud Metropolitan Transit	St. Cloud	Fixed Route Bus	MN	30	MS	[X]								X

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Commission		Demand Responsive	MN	19	MS	X					X			
City of Joplin Metro Area Public	Joplin	Demand Responsive	MO	8			DIG, TR							
City of St. Joseph Transit	St. Joseph	Fixed Route Bus	MO	21		X	TR			X	X			
City Utilities of Springfield	Springfield	Fixed Route Bus	MO	26	MS		DIG, TR					X		
		Demand Responsive	MO	5	MS		DIG, TR					X		
Columbia Transit System	Columbia	Fixed Route Bus	MO	17			DIG, TR							
		Demand Responsive	MO	8			DIG, TR							
Jefferson City Transit	Jefferson	Fixed Route Bus	MO	16										
		Demand Responsive	MO	7										
City of Jackson Transit System (Jatran)	Jackson	Fixed Route Bus	MS	27	MS	[X]	TR		[X]	[X]			[X]	
		Demand Responsive	MS	9		[X]	TR			[X]	X		[X]	
Coast Transit Authority	Gulfport	Fixed Route Bus	MS	18			DIG			X			X	
		Demand Responsive	MS	14			DIG						X	
Billings Metropolitan Transit	Billings	Fixed Route Bus	MT	25			TR							
		Demand Responsive	MT	15		[X]	TR			[X]	[X]			
Great Falls Transit District	Great Falls	Fixed Route Bus	MT	17			TR							
		Demand Responsive	MT	6			TR							
Asheville Transit System	Asheville	Fixed Route Bus	NC	19	[MS], [SC]		DIG, TR	[A]	[X]					[X]
Davidson County Transportation	Lexington	Demand Responsive	NC	9							X		X	
Fayetteville Area System of Transit	Fayetteville	Fixed Route Bus	NC	16	MS, [SC]	[X]	DIG, TR		X	[X]	[X]	X	X	
		Demand Responsive	NC	19	MS, [SC]	X	DIG, TR				[X]	X	X	
Greenville Area Transit	Greenville	Fixed Route Bus	NC	7										
Piedmont Wagon Transit System	Hickory	Fixed Route Bus	NC	4			DIG, TR						X	

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		Demand Responsive	NC	2			DIG, TR						X	
Rocky Mount Transit	Rocky Mount	Fixed Route Bus	NC	6			TR						X	
		Demand Responsive	NC	3			TR						X	
Wilmington Transit Authority	Wilmington	Fixed Route Bus	NC	27	MS	[X]	DIG, TR			[X]				[X]
		Demand Responsive	NC	20			DIG, TR							
Bis-Man Transit Board	Bismarck	Fixed Route Bus	ND	8	SC									
		Demand Responsive	ND	20										
Grand Forks City Bus	Grand Folks	Fixed Route Bus	ND	10	MS		DIG			X				X
		Demand Responsive	ND	3	MS		DIG							[X]
StarTRAN	Lincoln	Fixed Route Bus	NE	46			TR		X					
		Demand Responsive	NE	9			TR							
Community Transportation Services	Claremont	Fixed Route Bus	NH	4										
		Demand Responsive	NH	2										
Concord Area Transit	Concord	Fixed Route Bus	NH	4	MS		DIG, TR						X	
		Demand Responsive	NH	4			DIG, TR						X	
Cooperative Alliance For Seacoast Transportation	Dover	Fixed Route Bus	NH	17										
		Demand Responsive	NH	1										
Greater Laconia Transit Agency	Gilford	Fixed Route Bus	NH	4									X	
		Demand Responsive	NH	4									X	
HCS Community Care Inc.	Keene	Fixed Route Bus	NH	3									X	
		Demand Responsive	NH	2									X	
Manchester Transit Authority	Manchester	Fixed Route Bus	NH	13			[DIG], TR							
		Demand Responsive	NH	3			[DIG], TR							

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Nashua Transit System (Citybus)	Nashua	Fixed Route Bus	NH	5			DIG, TR							
		Demand Responsive	NH	9			DIG, TR							
North Country Transportation	Berlin	Fixed Route Bus	NH	1			[DIG], TR						[X]	
		Demand Responsive	NH	7			[DIG], TR						[X]	
DeCamp Commuter Services	Montclair	Fixed Route Bus	NJ	80										
Roadrunner Transit	Las Cruces	Fixed Route Bus	NM	17			TR							
		Demand Responsive	NM	15			TR							
ATC/VanCom Paratransit	North Las Vegas	Fixed Route Bus	NV	296	MS	X	DIG, TR		X	X	X	X		X
Regional Transportation Commission of Washoe County (Citifare)	Reno	Fixed Route Bus	NV	70		X	TR		X	X	X			X
		Demand Responsive	NV	38		X	TR			X	X			
Adirondack Transit Lines, Inc.	Hurley	Fixed Route Bus	NY	106			DIG							
Atlantic Express Transportation Group, Inc.	Staten Island	Fixed Route Bus	NY	40			TR							
		Demand Responsive	NY	265			TR							
Broome County Transit	Vestal	Fixed Route Bus	NY	43	[MS]		DIG		X					
		Demand Responsive	NY	10			DIG							
Chemung County Transportation Services Transit System	Elmira	Fixed Route Bus	NY	21			TR						X	
		Demand Responsive	NY	8			TR						X	
Dutchess County Mass Transportation Division	Poughkeepsie	Fixed Route Bus	NY	26			TR							
		Demand Responsive	NY	20			TR							
Kaser Bus Service	Monsey	Fixed Route Bus	NY	1			DIG							
Lester Lines	Wallkill	Fixed Route Bus	NY	2										
New Windsor-Cornwall Dial-A-Bus	New Windsor	Demand Responsive	NY	3										
Newburgh-Beacon Bus Corporation	Newburgh	Fixed Route Bus	NY	5			TR							

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		Demand Responsive	NY	3			TR							
Poughkeepsie Transit System	Poughkeepsie	Fixed Route Bus	NY	8			DIG		[X]					
Tompkins Consolidated Area Transit	Ithaca	Fixed Route Bus	NY	59	MS	X	[DIG], TR							
		Demand Responsive	NY	26			[DIG], TR							
Town of Newburgh Dial-A-Bus	Newburgh	Demand Responsive	NY	1										
Transport of Rockland	Pomona	Fixed Route Bus	NY	60	[MS]	[X]	DIG, [TR]		[X]	[X]	[X]	X	[X]	
		Demand Responsive	NY	19	[MS], [SC]	[X]	DIG, [TR]			[X]	[X]	X	[X]	
Utica Transit Authority	Utica	Fixed Route Bus	NY	28						X			X	
		Demand Responsive	NY	5									X	
Allen County Regional Transit Authority	Lima	Fixed Route Bus	OH	10										
		Demand Responsive	OH	5										
Chillicothe Transit System	Chillicothe	Fixed Route Bus	OH	7		X							X	
		Demand Responsive	OH	3		X							X	
Clermont Transportation Connection	Batavia	Demand Responsive	OH	22			DIG, TR						X	
Greene CATS	Xenia	Demand Responsive	OH	26			DIG, TR						X	
Licking County Transit Board	Newark	Fixed Route Bus	OH	3										
		Demand Responsive	OH	2										
Middletown Transit	Middletown	Fixed Route Bus	OH	4			DIG						[X]	
		Demand Responsive	OH	2			DIG						[X]	
Newark-Heath Taxi Token Program	Newark	Demand Responsive	OH	29									[X]	
Northeast Ohio Areawide Coordinating Agency	Brunswick	Fixed Route Bus	OH	5		[X]								
Portage Area Regional Transportation	Kent	Fixed Route Bus	OH	36		[X]	[DIG], TR				[X]			

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Authority		Demand Responsive	OH	46		[X]	[DIG], TR				[X]			
Richland County Transit	Mansfield	Fixed Route Bus	OH	10									X	
		Demand Responsive	OH	3									X	
Stark Area Regional Transit Authority	Canton	Fixed Route Bus	OH	42							[X]			
Steel Valley Regional Transit Authority	Steubenville	Fixed Route Bus	OH	5										
		Demand Responsive	OH	2										
Lawton Area Transit System	Lawton	Fixed Route Bus	OK	14			TR							
		Demand Responsive	OK	2			TR							
Lane Transit District	Eugene	Fixed Route Bus	OR	110		X		F, A	X	X	X	[X]		[X]
Rogue Valley Transportation District	Medford	Fixed Route Bus	OR	27	[MS], [SC]		DIG	[A]	[X]	[X]	[X]		X	[X]
		Demand Responsive	OR	55			DIG	[A]			[X]		X	
Altoona Metro Transit (AMTRAN)	Altoona	Fixed Route Bus	PA	28			DIG, TR						[X]	
		Demand Responsive	PA	1			DIG, TR						[X]	
Area Transportation Authority of N. Central Pennsylvania	Johnsonburg	Fixed Route Bus	PA	17		[X]	DIG, TR	[A]	[X]	[X]	X			
		Demand Responsive	PA	68		[X]	DIG, TR	[A]		[X]	[X]			
Berks Area Reading Transportation Authority	Reading	Fixed Route Bus	PA	52	MS								X	
		Demand Responsive	PA	38									X	
Cambria County Transit Authority	Johnstown	Fixed Route Bus	PA	25	MS								X	
		Demand Responsive	PA	2	MS						[X]		X	
Centre Area Transportation Authority	State College	Fixed Route Bus	PA	55		[X]	[DIG], [TR]		X	[X]	[X]			[X]
		Demand Responsive	PA	4	[MS]		[DIG], [TR]							
Erie Metro Transit Authority	Erie	Fixed Route Bus	PA	61	MS		TR							
		Demand Responsive	PA	43	MS		TR							

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Mid Mon Valley Transit Authority	Charleroi	Fixed Route Bus	PA	24					[X]			[X]		
		Demand Responsive	PA	2								[X]		
Pottstown Urban Transit	Pottstown	Fixed Route Bus	PA	8		[X]						X		
		Demand Responsive	PA	2	[MS], [SC]							X		
Red Rose Transit Authority	Lancaster	Fixed Route Bus	PA	46		X			X					
		Demand Responsive	PA	40		[X]								
Shenango Valley Shuttle Service	Hermitage	Fixed Route Bus	PA	4	[MS]	X				[X]	X		X	
		Demand Responsive	PA	20	[MS]	X				[X]	X		X	
Trans-Bridge Lines, Inc.	Bethlehem	Fixed Route Bus	PA	40		X	DIG, TR			[X]				
Williamsport Bureau of Transportation (City Bus)	Williamsport	Fixed Route Bus	PA	27	MS	X	DIG, TR		[X]				[X]	
		Demand Responsive	PA	2			DIG, TR						[X]	
York County Transportation Authority (Rabbit Transit)	York	Fixed Route Bus	PA	34	MS, SC								X	
		Demand Responsive	PA	37									X	
Charleston Area Regional Transportation Authority	Charleston	Fixed Route Bus	SC	66	MS	[X]	DIG, TR				[X]			X
		Demand Responsive	SC	16	MS	[X]	DIG, TR				X			
Columbia Transit	Columbia	Fixed Route Bus	SC	22			DIG, TR					[X]		
		Demand Responsive	SC	4			DIG, TR					[X]		
Pee Dee Regional Transportation Authority	Florence	Fixed Route Bus	SC	6		[X]	[DIG]				[X]			
		Demand Responsive	SC	130		[X]	[DIG]				[X]			
Santee Wateree Regional Transportation Authority	Sumter	Fixed Route Bus	SC	16		[X]				[X]	[X]			
		Demand Responsive	SC	61		[X]					[X]			
Spartanburg County Transportation	Spartanburg	Demand Responsive	SC	34		[X]	DIG				X		X	
Sioux Falls Transit	Sioux Falls	Fixed Route Bus	SD	27		[X]	[DIG], TR	[A]			[X]			

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
		Demand Responsive	SD	22		[X]	[DIG], TR	[A]			[X]			
Bristol Tennessee Transit	Bristol	Fixed Route Bus	TN	4										
		Demand Responsive	TN	4										
Chattanooga Area Regional Transit Authority	Chattanooga	Light Rail	TN	2		[X]	TR					[X]	[X]	
		Fixed Route Bus	TN	67		[X]	TR		X	[X]	[X]	[X]	[X]	X
		Demand Responsive	TN	15		[X]	TR		X	[X]	X	[X]	[X]	
Clarksville Transit System	Clarksville	Fixed Route Bus	TN	14			[DIG]							
		Demand Responsive	TN	8		X	[DIG]				[X]			
Jackson Transit Authority	Jackson	Fixed Route Bus	TN	13			[DIG]		[X]					
		Demand Responsive	TN	7	MS, SC		[DIG]							
Johnson City Transit System	Johnson	Fixed Route Bus	TN	8			TR					X		
		Demand Responsive	TN	8			TR					X		
Kingsport Area Transit Service	Kingsport	Fixed Route Bus	TN	4										
		Demand Responsive	TN	5										
Mountain Line	Missoula	Fixed Route Bus	TN	19	MS		TR						X	
		Demand Responsive	TN	5			TR						X	
Amarillo City Transit System	Amarillo	Fixed Route Bus	TX	12			DIG, TR					X		
		Demand Responsive	TX	6			DIG, TR					X		
Beaumont Municipal Transit System	Beaumont	Fixed Route Bus	TX	19										
		Demand Responsive	TX	9										
Brownsville Urban System	Brownsville	Fixed Route Bus	TX	29	[MS]	[X]	TR				[X]			
		Demand Responsive	TX	12		[X]	TR				[X]			
City of Arlington, HANDITRAN	Arlington	Demand Responsive	TX	17			DIG, TR					[X]		

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
City of Longview Transportation	Kilgore	Demand Responsive	TX	4			DIG, TR						[X]	
City of Tyler	Tyler	Fixed Route Bus	TX	4			[DIG], TR				[X]		X	
		Demand Responsive	TX	3		X	[DIG], TR			[X]	X		X	
CityLink	Abilene	Fixed Route Bus	TX	21	[MS]		[DIG], TR							
		Demand Responsive	TX	24		[X]	[DIG], TR				X			
Corpus Christi Regional Transportation Authority	Corpus Christi	Fixed Route Bus	TX	93		X	TR		[X]					
		Ferry Boat	TX	1			TR							
		Demand Responsive	TX	39		X	TR							
Grand Prairie Transit Services	Grand Prairie	Demand Responsive	TX	11			DIG, TR					X	[X]	
Hill Country Transit District	Temple	Fixed Route Bus	TX	25			TR						X	
		Demand Responsive	TX	26			TR						X	
Island Transit	Galveston	Light Rail	TX	4										
		Demand Responsive	TX	5										
		Fixed Route Bus	TX	18										
Laredo Municipal Transit System	Laredo	Fixed Route Bus	TX	49	MS									
		Demand Responsive	TX	14										
Mesquite City Transit	Mesquite	Demand Responsive	TX	10							[X]			
Port Author Transit	Port Author	Fixed Route Bus	TX	5										
		Demand Responsive	TX	4										
Regional Transportation Authority	Arlington	Fixed Route Bus	TX	80	MS	X	TR			X	X		[X]	
		Ferry Boat	TX	1			TR						[X]	
		Demand Responsive	TX	32		X	TR				X		[X]	
San Angelo Street Railroad Company	San Angelo	Fixed Route Bus	TX	8										

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Texoma Area Paratransit System	Sherman	Demand Responsive	TX	17									[X]	
The District	Bryan	Fixed Route Bus	TX	18			TR							
		Demand Responsive	TX	50		[X]	TR			[X]	[X]			
The Gulf Coast Center (Connect Transportation)	Galveston	Demand Responsive	TX	36		X					X	X	[X]	
Waco Transit	Waco	Fixed Route Bus	TX	19	[MS]		DIG, TR							
		Demand Responsive	TX	8			DIG, TR							
Wichita Falls Transit System	Wichita Falls	Demand Responsive	TX	12										
Logan Transit District	Logan	Fixed Route Bus	UT	18		[X]	TR		[X]		[X]			
		Demand Responsive	UT	6		[X]	TR				[X]			
Alexandria Transit Company (DASH)	Alexandria	Fixed Route Bus	VA	57	[SC]	X	DIG, TR		[X]					[X]
Arlington Transit - Arlington County	Arlington	Fixed Route Bus	VA	16	[MS], [SC]	[X]				[X]	[X]			
Blacksburg Transit	Blacksburg	Fixed Route Bus	VA	47		[X]			X	[X]	[X]	X	[X]	
		Demand Responsive	VA	10								X	[X]	
Bristol Virginia Transit	Bristol	Fixed Route Bus	VA	3									X	
		Demand Responsive	VA	1									X	
Charlottesville Transit Service	Charlottesville	Fixed Route Bus	VA	32		[X]		[A]			[X]			X
Danville Mass Transit	Danville	Fixed Route Bus	VA	9		[X]	DIG, TR							
		Demand Responsive	VA	6		X	DIG, TR							
Fredericksburg Regional Transit	Fredericksburg	Fixed Route Bus	VA	12			TR						X	
Greater Lynchburg Transit Company	Lynchburg	Fixed Route Bus	VA	18	MS, [SC]	X	[DIG], [TR]			[X]	[X]			[X]
		Demand Responsive	VA	3	MS, [SC]	[X]	[DIG], [TR]			[X]	[X]			
Greater Roanoke Transit Company	Roanoke	Fixed Route Bus	VA	40	[MS]		[DIG], [TR]							
		Demand Responsive	VA	4			[DIG], [TR]							

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
JAUNT	Charlottesville	Demand Responsive	VA	72		X					X		X	
Loudoun County Commuter Bus Service	Leesburg	Fixed Route Bus	VA	19	[SC]	[X]	DIG				[X]	X		
Williamsburg Area Transport	Williamsburg	Fixed Route Bus	VA	10	[MS]		[DIG], [TR]							
		Demand Responsive	VA	3			[DIG], [TR]							
Addison County Transit Resources	Middlebury	Fixed Route Bus	VT	3									X	
		Demand Responsive	VT	7									X	
Advance Transit	Wilder	Fixed Route Bus	VT	26			DIG, [TR]							
Brattleboro BeeLine	Brattleboro	Fixed Route Bus	VT	2								[X]	X	
		Demand Responsive	VT	2								[X]	X	
Chittenden County Transportation Authority	Burlington	Fixed Route Bus	VT	54	MS		DIG, [TR]				[X]			
Fort Ticonderoga Ferry	Shorehan	Ferry Boat	VT	1										
Green Mountain Express	Bennington	Fixed Route Bus	VT	4			DIG			X	[X]		X	
		Demand Responsive	VT	18			DIG				[X]		X	
Rural Community Transportation	St. Johnsbury	Fixed Route Bus	VT	9						X			X	
		Demand Responsive	VT	15						X			X	
Ben Franklin Transit	Richland	Fixed Route Bus	WA	50		X			[X]					X
		Demand Responsive	WA	63							X			
Community Urban Bus Service	Longview	Fixed Route Bus	WA	5										
		Demand Responsive	WA	9										
CTRAN	Vancouver	Fixed Route Bus	WA	106		[X]	DIG, TR		X		[X]	X		
		Demand Responsive	WA	45		[X]	DIG, TR				[X]	X		
Everett Transit	Everett	Fixed Route Bus	WA	40									X	
		Demand Responsive	WA	20									X	

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
InterCity Transit	Olympia	Fixed Route Bus	WA	50			[TR]				[X]			
		Demand Responsive	WA	24			[TR]				[X]			
Lewis Public Transportation Benefit Area	Centralia	Fixed Route Bus	WA	8										
		Demand Responsive	WA	1										
Pullman Transit	Pullman	Fixed Route Bus	WA	16										
		Demand Responsive	WA	4										
Spokane Transit Authority	Spokane	Fixed Route Bus	WA	122	MS		DIG, TR					X	X	
		Demand Responsive	WA	68	MS	X	DIG, TR				X	X	X	
Whatcom Transportation Authority	Wilmington	Fixed Route Bus	WA	38	MS		DIG, TR							
		Demand Responsive	WA	38		[X]	DIG, TR				X			
Yakima Transit	Yakima	Fixed Route Bus	WA	21		[X]								
Belle Urban System	Racine	Fixed Route Bus	WI	31		X	DIG		X	X	X		X	
		Demand Responsive	WI	10			DIG						X	
Beloit Transit System	Beloit	Fixed Route Bus	WI	12			TR						X	
Chippewa Falls Shared Ride Taxi Program	Chippewa-Falls	Demand Responsive	WI	8			DIG							
Eau Claire Transit	Eau Claire	Fixed Route Bus	WI	22									X	
LaCrosse Municipal Transit Utility	LaCrosse	Fixed Route Bus	WI	21			TR							
		Demand Responsive	WI	11			TR							
Madison Metro	Madison	Fixed Route Bus	WI	197		[X]								
		Demand Responsive	WI	23		[X]								
Onalaska Shared Ride Taxi	Onalaska	Demand Responsive	WI	3										
Oshkosh Transit System	Oshkosh	Fixed Route Bus	WI	17										
		Demand Responsive	WI	28										

Agency	City	Service	State	Vehicles (2004)	Automated Fare Payment	Automatic Vehicle Location	Advanced Communications	Vehicle Probes	Automatic Passenger Counters	Vehicle Component Monitoring	Automated Operations Software	Transportation Management Center	Mobility Manager	Traffic Signal Priority
Ozaukee County Transit Services	Port Washington	Fixed Route Bus	WI	5		X								
		Demand Responsive	WI	19										
Valley Transit	Appleton	Fixed Route Bus	WI	25		X							X	
		Demand Responsive	WI	40									X	
Washington County Transit	West Bend	Fixed Route Bus	WI	6										
		Demand Responsive	WI	14										
Wausau Area Transit System	Wausau	Fixed Route Bus	WI	24										
Kanawha Valley Regional Transportation Authority	Charleston	Fixed Route Bus	WV	56			DIG, TR							
		Demand Responsive	WV	13			DIG, TR							
Mid-Ohio Valley Transit Authority	Parkersburg	Fixed Route Bus	WV	18	MS	[X]					[X]			
		Demand Responsive	WV	2	MS	[X]					[X]			
Ohio Valley Regional Transportation Authority	Wheeling	Fixed Route Bus	WV	13			TR							
		Demand Responsive	WV	2			TR							
Tri-State Transit Authority	Huntington	Fixed Route Bus	WV	28	[MS], [SC]								X	
Weirton Transit Corporation	Steubenville	Fixed Route Bus	WV	1										
		Demand Responsive	WV	1										
Casper Area Transportation Coalition	Casper	Demand Responsive	WY	9			DIG, TR						[X]	
Cheyenne Transit Program	Cheyenne	Fixed Route Bus	WY	12										
		Demand Responsive	WY	6										
Southern Teton Area Rapid Transit	Jackson	Fixed Route Bus	WY	14	[MS], [SC]									
		Demand Responsive	WY	3										

Table 4-2. Small metro area agency technology deployment and integration

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
Anchorage Public Transportation (Peope Mover)	Anchorage	Fixed Route Bus	AK	X	X				[P]	[X]		RA		[X]
		Demand Responsive	AK						[P]	[X]		RA		[X]
MACS and VANTRAN	Fairbanks	Fixed Route Bus	AK		X				I	[X]		RA	X	
		Demand Responsive	AK						I	[X]		RA	X	
Anniston Express	Anniston	Fixed Route Bus	AL						[P], [I]					
		Demand Responsive	AL						[P], [I]					
Autauga County Rural Transportation	Prattville	Demand Responsive	AL						P, I					
East Alabama Regional Planning and Development Commission	Montgomery	Fixed Route Bus	AL						P					
		Demand Responsive	AL						P					
Huntsville Transit	Huntsville	Fixed Route Bus	AL						P			[RA]	X	[X]
		Demand Responsive	AL						P			[RA]	X	[X]
Lee-Russell Council of Governments	Opelika	Fixed Route Bus	AL						I					
		Demand Responsive	AL						I					
Metro Transit System	Mobile	Fixed Route Bus	AL	[X]	[X]	[X]			[I]	[X]	[X]	RA		
		Demand Responsive	AL						[I]	[X]	[X]	RA		
Montgomery Area Transit System	Montgomery	Fixed Route Bus	AL	X	[X]				[I]	[X]		RA		
		Demand Responsive	AL						[I]	[X]		RA		
Northwest Alabama Council of Local Governments	Muscle Shoals	Demand Responsive	AL						P			[RA]		
Tuscaloosa Transit Authority	E. Tuscaloosa	Fixed Route Bus	AL	[X]					I				X	
		Demand Responsive	AL						I				X	
Wiregrass Transit Authority	Dothan	Demand Responsive	AL						P				X	

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
Fort Smith Public Transit	Fort Smith	Fixed Route Bus	AR	[X]	X				[I]	[X]	[X]	[RA]		[X]
		Demand Responsive	AR						[I]	[X]	[X]	[RA]		[X]
Intra City Transit	Hot Springs	Fixed Route Bus	AR		[X]				P					
		Demand Responsive	AR						P					[X]
Ozark Transit Authority	Springdale	Fixed Route Bus	AR						I					
		Demand Responsive	AR						I					
University of Arkansas (Razorback Transit)	Fayetteville	Fixed Route Bus	AR						[I]			[RA]		
		Demand Responsive	AR						[I]			[RA]		
Coconino County Community Transportation Services	Flagstaff	Fixed Route Bus	AZ						P, I				X	
		Demand Responsive	AZ						P, I				X	
Benicia Transit	Benicia	Fixed Route Bus	CA						P	X	X			
		Demand Responsive	CA						P	X	X			
Camarillo Area Transit	Camarillo	Fixed Route Bus	CA						P	X	X	RA		
		Demand Responsive	CA						P	X	X	RA		
Chico Area Transit System	Chico	Fixed Route Bus	CA	X					P		[X]			
City of El Monte Transportation Services Division	El Monte	Fixed Route Bus	CA		X				[I]					
		Demand Responsive	CA						[I]					X
City of Riverside Transportation	Riverside	Demand Responsive	CA						I		X	RA		X
Davis Community Transit	Davis	Demand Responsive	CA						P					
Emery-Go-Round	Emeryville	Fixed Route Bus	CA	X					I					
Foothill Transit	West Covina	Fixed Route Bus	CA	[X]	X	[X]	[X]		[I]	[X]	X	[RA]		[X]
Glendale Transit	Glendale	Fixed Route Bus	CA	X		X			P		[X]	[RA]		
		Demand Responsive	CA						P		[X]	[RA]		

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
Healdsburg Transit	Healdsburg	Fixed Route Bus	CA						I					
		Demand Responsive	CA						I					
Lodi Transit	Lodi	Fixed Route Bus	CA	X					[P]			RA		
		Demand Responsive	CA						[P]			RA		
Lompoc Transit	Lompoc	Fixed Route Bus	CA						[P], [I]			[RA]		
		Demand Responsive	CA						[P], [I]			[RA]		
Mendocino Transit Authority	Ukiah	Fixed Route Bus	CA	X					P			T		
		Demand Responsive	CA						P			T		
Merced County Transit (The Bus)	Merced	Fixed Route Bus	CA	X	[X]				[I]	[X]		[RA]	X	[X]
		Demand Responsive	CA						[I]	[X]		[RA]	X	[X]
Modesto Area Express	Modesto	Fixed Route Bus	CA	X	[X]	X			[I]			RA		
		Demand Responsive	CA						[I]			RA		
Omnitrans	San Bernardino	Fixed Route Bus	CA	X	X	X			P	X		[RA]		
		Demand Responsive	CA						P	X		[RA]		
Petaluma Transit	Petaluma	Fixed Route Bus	CA						[P]		X			
		Demand Responsive	CA						[P]		X			
Redding Area Bus Authority	Redding	Fixed Route Bus	CA		X				P			RA	X	
		Demand Responsive	CA						P			RA	X	
Rio Vista Transit	Rio Vista	Demand Responsive	CA						[P]			[RA]		
Riverside Transit Agency	Riverside	Fixed Route Bus	CA	X					P, W, I			[RA], T		
Roseville Transit	Roseville	Fixed Route Bus	CA						[I]	[X]	[X]			
		Demand Responsive	CA						[I]	[X]	[X]			
San Benito County Ride Share	Hollister	Fixed Route Bus	CA						P			RA		

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
		Demand Responsive	CA						P			RA		
San Joaquin Regional Transit District	Stockton	Fixed Route Bus	CA	X	X	X			[W]					X
		Demand Responsive	CA						[W]					X
San Luis Obispo Regional Transit Authority	San Luis Obispo	Fixed Route Bus	CA						P					
		Demand Responsive	CA						P					
Santa Barbara Metropolitan Transit District	Santa Barbara	Fixed Route Bus	CA		X				P			RA		
Santa Clara Valley Transportation Authority	San Jose	Light Rail	CA						I	X	X			
		Fixed Route Bus	CA	[X]	[X]	[X]			I	X	X			
Santa Maria Area Transit	Santa Maria	Fixed Route Bus	CA		X				[I]			RA		
		Demand Responsive	CA						[I]			RA		
Stanislaus Regional Transit	Modesto	Fixed Route Bus	CA	X	X	X			P		X			
		Demand Responsive	CA						P		X			
Sunline Transit Agency	Thousand Palms	Fixed Route Bus	CA	X	X	X			[P]					
		Demand Responsive	CA						[P]					
Thousand Oaks Transit	Thousand Oaks	Fixed Route Bus	CA	[X]					P, W		X			
		Demand Responsive	CA						P, W		X			
Tri-Delta Transit	Antioch	Fixed Route Bus	CA	X	X	X			P	X	X	[RA]		[X]
		Demand Responsive	CA						P	X	X	[RA]		X
Union City Transit	Union City	Fixed Route Bus	CA	X					P	X				
		Demand Responsive	CA						P	X				
UniTrans	Davis	Fixed Route Bus	CA						[P], [W]	[X]		RA		
		Demand Responsive	CA						[P], [W]	[X]		RA		
Vacaville City Coach	Vacaville	Fixed Route Bus	CA	[X]					[I]					

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
		Demand Responsive	CA						[I]					
Ventura County Transportation Commission	Ventura	Fixed Route Bus	CA	X	X				P	X	X	[RA]		X
		Demand Responsive	CA						P	X	X	[RA]		X
Yolo County Transportation District (Yolobus)	Woodland	Fixed Route Bus	CA	X					[I]			[RA]		[X]
		Demand Responsive	CA						[I]			[RA]		[X]
Yuba-Sutter Transit	Marysville	Fixed Route Bus	CA						P					
		Demand Responsive	CA						P					
Avon/Beaver Creek Transit	Avon	Fixed Route Bus	CO						P				X	
City of Pueblo Transit	Pueblo	Fixed Route Bus	CO	[X]					[I]			[RA]		
		Demand Responsive	CO						[I]			[RA]		
Eagle County Regional Transportation Authority	Gypsum	Fixed Route Bus	CO										X	
		Demand Responsive	CO										X	
Grand Valley Transit	Grand Junction	Fixed Route Bus	CO	X	X				P			T	X	
		Demand Responsive	CO						P			T	X	
Roaring Fork Transportation Authority	Aspen	Fixed Route Bus	CO	X		X			P					
		Demand Responsive	CO						P					
Springs Transit	Colorado Springs	Fixed Route Bus	CO	X	[X]				[I]	[X]				[X]
Transfort Dial-A-Ride	Fort Collins	Fixed Route Bus	CO	[X]	X	[X]			[P], [W]	X		RA	X	
		Demand Responsive	CO						[P], [W]	X		RA	X	
Connecticut Limousine	Milford	Fixed Route Bus	CT						I		X	[RA], T	X	
		Demand Responsive	CT						I		X	[RA], T	X	
Dattco	New Britain	Fixed Route Bus	CT		X						X			
Greater Bridgeport Transit Authority	Bridgeport	Fixed Route Bus	CT	X		X			[I]		X	[RA]		[X]

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
		Demand Responsive	CT						[I]		X	[RA]		[X]
Housatonic Area Regional Transit	Danbury	Fixed Route Bus	CT		[X]				[I]	[X]		[RA], T		
		Demand Responsive	CT						[I]	[X]		[RA], T		
Milford Transit District	Milford	Fixed Route Bus	CT	X					[W]		X	[RA]	X	
		Demand Responsive	CT						[W]		X	[RA]	X	
New Milford Senior Center	New Milford	Fixed Route Bus	CT						P					
		Demand Responsive	CT						P					
Northeast Transportation Company	Waterbury	Fixed Route Bus	CT	X	X				[P], [I]		X			
		Demand Responsive	CT						[P], [I]		X			
Southeast Area Transit District	Norwich	Fixed Route Bus	CT	X		X	X		[I]		X	[RA], T	X	
		Demand Responsive	CT						[I]		X	[RA], T	X	
The New Britain Transportation Company	Berlin	Fixed Route Bus	CT						I		X	[RA]		
Valley Transit District	Derby	Demand Responsive	CT						P				X	
Delaware Transit Corporation (DART First State)	Dover	Fixed Route Bus	DE	X	X	X			[I]	X	[X]	RA, T	X	X
		Demand Responsive	DE						[I]	X	[X]	RA, T	X	X
Council on Aging of Martin County	Stuart	Fixed Route Bus	FL						[P]					[X]
		Demand Responsive	FL						[P]					[X]
Escambia County Area Transit	Pensacola	Fixed Route Bus	FL	X					[P]				X	
Indian River Council on Aging	Vero Beach	Fixed Route Bus	FL	X					P			[RA]	X	
		Demand Responsive	FL						P			[RA]	X	
Lee County Transit	Ft Myers	Fixed Route Bus	FL		X				[W]			RA	X	
		Demand Responsive	FL						[W]			RA	X	[X]
Polk County Transit Services Division	Bartow	Fixed Route Bus	FL						[P]			T	X	

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
		Demand Responsive	FL						[P]			T	X	
Regional Transit System	Gainesville	Fixed Route Bus	FL						[I]			[RA]		
Ride Solution	Palatka	Demand Responsive	FL											X
Space Coast Area Transit	Cocoa	Fixed Route Bus	FL	X					[I]				X	
		Demand Responsive	FL						[I]				X	
SunTran	Ocala	Fixed Route Bus	FL						P					
		Demand Responsive	FL						P					
Volusia County Transportation Authority (VOTRAN)	South Daytona	Fixed Route Bus	FL	X	X	X			[I]			[RA], T		[X]
		Demand Responsive	FL						[I]			[RA], T		[X]
Albany Transit System	Albany	Fixed Route Bus	GA						P					
		Demand Responsive	GA						P					
Augusta Public Transit	Augusta	Fixed Route Bus	GA						P			RA		
		Demand Responsive	GA						P			RA		[X]
Chatham Area Transit Authority	Savannah	Fixed Route Bus	GA	[X]	X	[X]			I					
		Ferry Boat	GA						I					
Gwinnett County Board of Commissioners	Lawrenceville	Fixed Route Bus	GA						[W]			[RA]		
		Demand Responsive	GA						[W]			[RA]		
METRA Transit System	Columbus	Fixed Route Bus	GA	[X]					I	X		T		
		Demand Responsive	GA						I	X		T		[X]
University of Georgia (Campus Transit)	Athens	Fixed Route Bus	GA		X				[P], [W]				X	[X]
		Demand Responsive	GA						[P], [W]				X	[X]
Bettendorf Transit System	Bettendorf	Fixed Route Bus	IA	X		X			I				X	
		Demand Responsive	IA						I				X	

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
Coralville Transit System	Coralville	Fixed Route Bus	IA		[X]				P		X	[RA]	X	
		Demand Responsive	IA						P		X	[RA]	X	X
Davenport CitiBus	Davenport	Fixed Route Bus	IA	X		X			P					
Des Moines Metro Transit Authority	Des Moines	Fixed Route Bus	IA	X					P			RA		
		Demand Responsive	IA						P			RA		
Dubuque-Keyline Transit	Dubuque	Fixed Route Bus	IA	[X]					[P]			[RA], T		
		Demand Responsive	IA						[P]			[RA], T		[X]
Five Seasons Transportation	Cedar Rapids	Fixed Route Bus	IA	X	X	X			P, W			RA, T	X	
		Demand Responsive	IA						P, W			RA, T	X	
Iowa City Transit	Iowa City	Fixed Route Bus	IA	[X]					I		X	[RA]	X	
		Demand Responsive	IA						I		X	[RA]	X	X
Metropolitan Transit Authority of Black Hawk County	Waterloo	Fixed Route Bus	IA						P			[RA]		
		Demand Responsive	IA						P			[RA]		
Sioux City Transit System	Sioux City	Fixed Route Bus	IA	X	X	X			[I]	X		RA	X	
		Demand Responsive	IA						[I]	X		RA	X	
Siouxland Regional Transit System	Sioux City	Demand Responsive	IA						[P], [I]			[RA]		
University of Iowa, CAMBUS	Iowa City	Fixed Route Bus	IA	[X]					[P]		X	[RA]		
		Demand Responsive	IA						[P]		X	[RA]		
Pocatello Regional Transit	Pocatello	Fixed Route Bus	ID	[X]	[X]				[I]	[X]		[RA]		
		Demand Responsive	ID						[I]	[X]		[RA]		
Targhee Regional Public Transit Authority	Idaho Falls	Fixed Route Bus	ID						I					
Treasure Valley Transit	Boise	Fixed Route Bus	ID						[I]					
		Demand Responsive	ID						[I]					

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
Valley Ride	Boise	Fixed Route Bus	ID		X				I					
		Demand Responsive	ID						I					
Bloomington-Normal Public Transit System	Bloomington	Fixed Route Bus	IL	X	X	X			P					
		Demand Responsive	IL						P					
Champaign-Urbana Mass Transit District	Urbana	Fixed Route Bus	IL	X	X	X			[P]			[RA]	X	
		Demand Responsive	IL						[P]			[RA]	X	
City of East Dubuque	East Dubuque	Demand Responsive	IL									T		
City of Pekin Municipal Bus	Pekin	Fixed Route Bus	IL						I					
Greater Peoria Transit (CityLink)	Peoria	Fixed Route Bus	IL	X	X	X			[I]			[RA]		[X]
		Demand Responsive	IL						[I]			[RA]		[X]
River Valley Metro Mass Transit District	Kankakee	Fixed Route Bus	IL						[P]					
		Demand Responsive	IL						[P]					
Rock Island County Mass Transit (METROLINK)	Rock Island	Fixed Route Bus	IL	X		X			[I]			[RA]		X
		Ferry Boat	IL						[I]			[RA]		X
Rockford Mass Transit District	Rockford	Fixed Route Bus	IL	[X]				X	[I]			[RA]		
		Demand Responsive	IL						[I]			[RA]		[X]
Springfield Mass Transit District	Springfield	Fixed Route Bus	IL	X					[P]					
		Demand Responsive	IL						[P]					
Bloomington Public Transportation Corporation	Bloomington	Fixed Route Bus	IN						P					
		Demand Responsive	IN						P					
City of Anderson Transportation	Anderson	Fixed Route Bus	IN											
		Demand Responsive	IN											
Fort Wayne Public Transportation Corporation (Citilink)	Fort Wayne	Fixed Route Bus	IN	X	X	X			[I]			T		

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
		Demand Responsive	IN						[I]			T		[X]
Kokomo/Howard County Governmental Coordinating Council	Kokomo	Demand Responsive	IN						P			RA		[X]
Metropolitan Evansville Transit System	Evansville	Fixed Route Bus	IN	X		X			[P]					
		Demand Responsive	IN						[P]					[X]
Michiana Area Council of Government	South Bend	Fixed Route Bus	IN		X				P			[RA]		
		Demand Responsive	IN						P			[RA]		
Muncie Indiana Transit System	Muncie	Fixed Route Bus	IN	X	X	X			P			[RA], T	X	
		Demand Responsive	IN						P			[RA], T	X	
South Bend Public Transportation	South Bend	Fixed Route Bus	IN	X	X	X			P, W, I					
		Demand Responsive	IN						P, W, I					
Terre Haute Transit Utility	Terre Haute	Fixed Route Bus	IN			X			I			[RA]		[X]
		Demand Responsive	IN						I			[RA]		[X]
City of Olathe	Olathe	Demand Responsive	KS						P		X			
Johnson County Transit	Olathe	Fixed Route Bus	KS						[P]	[X]	X	[RA], T		[X]
		Demand Responsive	KS						[P]	[X]	X	[RA], T		X
Topeka Metropolitan Transit	Topeka	Fixed Route Bus	KS	X		X			P			[RA]	X	
		Demand Responsive	KS						P			[RA]	X	
Ashland Bus System	Ashland	Fixed Route Bus	KY						P					
		Demand Responsive	KY						P					
Henderson Area Rapid Transit	Henderson	Fixed Route Bus	KY						P					
		Demand Responsive	KY						P					
Owensboro Transit System	Owensboro	Fixed Route Bus	KY						P			[RA]		
		Demand Responsive	KY						P			[RA]		

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
Transit Authority of Northern Kentucky	Ft. Wright	Fixed Route Bus	KY	X	X	X					X			X
		Demand Responsive	KY								X			X
CityBus of Greater Lafayette	Lafayette	Fixed Route Bus	LA	X	X	X			I	X		[RA]		
		Demand Responsive	LA						I	X		[RA]		
Lake Charles Transit System	Lake Charles	Fixed Route Bus	LA	X					[P], [I]	[X]		[RA]		
		Demand Responsive	LA						[P], [I]	[X]		[RA]		
Monroe Transit System	Monroe	Fixed Route Bus	LA		X				I					
		Demand Responsive	LA						I					
Shreveport Transit System	Shreveport	Fixed Route Bus	LA	X	X				I					
		Demand Responsive	LA						I					
Terrebonne Parish Good Earth Transit System	Houma	Fixed Route Bus	LA	X		X			P			[RA]		
		Demand Responsive	LA						P			[RA]		
Berkshire Regional Transit Authority	Pittsfield	Fixed Route Bus	MA	[X]	[X]				[I]			T		
		Demand Responsive	MA						[I]			T		
Cape Ann Transportation Authority	Gloucester	Fixed Route Bus	MA						[I]			T		
		Demand Responsive	MA						[I]			T		
Cape Cod Regional Transit Authority	Dennis	Fixed Route Bus	MA		X				[I]	X		[RA], T		X
		Demand Responsive	MA						[I]	X		[RA], T		X
Lowell Regional Transit Authority	Lowell	Fixed Route Bus	MA						[W]					
		Demand Responsive	MA						[W]					
Montachusett Regional Transit Authority	Fitchburg	Fixed Route Bus	MA						I			[RA]		
		Demand Responsive	MA						I			[RA]		X
Southeastern Regional Transit Authority	New Bedford	Fixed Route Bus	MA	X					I			[RA]		

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
		Demand Responsive	MA						I			[RA]		
Allegany County Transit	Cumberland	Fixed Route Bus	MD	[X]					P					
Annapolis Transit	Annapolis	Fixed Route Bus	MD						P	X	X	[RA]		
		Demand Responsive	MD						P	X	X	[RA]		
TransIT Services of Frederick County	Frederick	Fixed Route Bus	MD									[RA]		
		Demand Responsive	MD									[RA]		
Washington County Transportation Department	Hagerstown	Fixed Route Bus	MD						[P]				X	
		Demand Responsive	MD						[P]				X	
Bangor Area Comprehensive Transportation System	Bangor	Fixed Route Bus	ME						P	X				
Casco Bay Island Transit District	Portland	Ferry Boat	ME						[I]	X	[X]	[RA]	X	
Coastal Trans	Rockland	Fixed Route Bus	ME						P					
		Demand Responsive	ME						P					
Downeast Transportation	Ellsworth	Fixed Route Bus	ME						[P], [I]					X
Greater Portland Transit District	Portland	Fixed Route Bus	ME		X				[I]	X		[RA], T		
Kennebec Valley Community Action Program	Waterville	Fixed Route Bus	ME						P					
		Demand Responsive	ME						P					
South Portland Bus Service0	South Portland	Fixed Route Bus	ME						[W]	X	X			
The Regional Transportation Program	Portland	Demand Responsive	ME						[P]					
York County Community Action Corp.	Sanford	Demand Responsive	ME						P					
Battle Creek Transit	Battle Creek	Fixed Route Bus	MI		X	X			P			[RA]	X	X
		Demand Responsive	MI						P			[RA]	X	X
Blue Water Area Transit	Port Huron	Fixed Route Bus	MI						P			RA		
		Demand Responsive	MI						P			RA		

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
Capital Area Transportation Authority	Lansing	Fixed Route Bus	MI						I			RA, T		
		Demand Responsive	MI						I			RA, T		
Jackson Transportation Authority	Jackson	Fixed Route Bus	MI						W					
		Demand Responsive	MI						W					X
Kalamazoo Metro Transit System	Kalamazoo	Fixed Route Bus	MI	X	X				[W]					
		Demand Responsive	MI						[W]					
Macatawa Area Express (MAX)	Holland	Fixed Route Bus	MI						[P]					
		Demand Responsive	MI						[P]					
Mass Transportation Authority	Flint	Fixed Route Bus	MI	X	X	X			P			RA		
		Demand Responsive	MI						P			RA		
Muskegon Area Transit	Muskegon	Fixed Route Bus	MI						[P]					
		Demand Responsive	MI						[P]					
Niles Dial-A-Ride	Niles	Demand Responsive	MI						P					
Twin Cities Area Transportation Authority	Benton Harbor	Fixed Route Bus	MI											
		Demand Responsive	MI											
Duluth Transit Authority	Duluth	Fixed Route Bus	MN	X	X	X			I			RA		X
		Demand Responsive	MN						I			RA		X
Mankato Heartland Express	Mankato	Fixed Route Bus	MN						P					X
		Demand Responsive	MN						P					
Metro Mobility	St. Paul	Demand Responsive	MN									[RA]		
Moorhead Metro Area Transit	Moorhead	Fixed Route Bus	MN	X					P		X	RA	X	
		Demand Responsive	MN						P		X	RA	X	
St. Cloud Metropolitan Transit Commission	St. Cloud	Fixed Route Bus	MN	X	X	X			[I]			RA, T		

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
		Demand Responsive	MN						[I]			RA, T		X
City of Joplin Metro Area Public	Joplin	Demand Responsive	MO						P			[RA]	X	
City of St. Joseph Transit	St. Joseph	Fixed Route Bus	MO	X	X	X			P			[RA], T		X
City Utilities of Springfield	Springfield	Fixed Route Bus	MO	X	X				P			RA	X	
		Demand Responsive	MO						P			RA	X	
Columbia Transit System	Columbia	Fixed Route Bus	MO	X		X			P			[RA]	X	X
		Demand Responsive	MO						P			[RA]	X	
Jefferson City Transit	Jefferson	Fixed Route Bus	MO	X					P				X	
		Demand Responsive	MO						P				X	
City of Jackson Transit System (Jatran)	Jackson	Fixed Route Bus	MS	[X]	[X]				P			RA		[X]
		Demand Responsive	MS						P			RA		[X]
Coast Transit Authority	Gulfport	Fixed Route Bus	MS						P			RA	X	
		Demand Responsive	MS						P			RA	X	
Billings Metropolitan Transit	Billings	Fixed Route Bus	MT						P					
		Demand Responsive	MT						P					
Great Falls Transit District	Great Falls	Fixed Route Bus	MT		X		X		P					
		Demand Responsive	MT						P					
Asheville Transit System	Asheville	Fixed Route Bus	NC	X					[I]					[X]
Davidson County Transportation	Lexington	Demand Responsive	NC						P			T		
Fayetteville Area System of Transit	Fayetteville	Fixed Route Bus	NC	X		[X]			[I]			RA, T	X	
		Demand Responsive	NC						[I]			RA, T	X	
Greenville Area Transit	Greenville	Fixed Route Bus	NC	X				X	[I]					
Piedmont Wagon Transit System	Hickory	Fixed Route Bus	NC						I					

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
		Demand Responsive	NC						I					
Rocky Mount Transit	Rocky Mount	Fixed Route Bus	NC		X	X			P			[RA]		
		Demand Responsive	NC						P			[RA]		
Wilmington Transit Authority	Wilmington	Fixed Route Bus	NC						[P]			RA	X	
		Demand Responsive	NC						[P]			RA	X	[X]
Bis-Man Transit Board	Bismarck	Fixed Route Bus	ND	[X]		[X]			[P]			[RA], T		
		Demand Responsive	ND						[P]			[RA], T		
Grand Forks City Bus	Grand Folks	Fixed Route Bus	ND	X					[I]		X	[RA], T		
		Demand Responsive	ND						[I]		X	[RA], T		
StarTRAN	Lincoln	Fixed Route Bus	NE						P			RA		
		Demand Responsive	NE						P			RA		
Community Transportation Services	Claremont	Fixed Route Bus	NH						P			[RA]		
		Demand Responsive	NH						P			[RA]		
Concord Area Transit	Concord	Fixed Route Bus	NH		X				I			[RA]		
		Demand Responsive	NH						I			[RA]		
Cooperative Alliance For Seacoast Transportation	Dover	Fixed Route Bus	NH						[P]			[RA]		
		Demand Responsive	NH						[P]			[RA]		
Greater Laconia Transit Agency	Gilford	Fixed Route Bus	NH						P					
		Demand Responsive	NH						P					
HCS Community Care Inc.	Keene	Fixed Route Bus	NH						P			[RA]		
		Demand Responsive	NH						P			[RA]		
Manchester Transit Authority	Manchester	Fixed Route Bus	NH		[X]				P			[RA]		
		Demand Responsive	NH						P			[RA]		

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
Nashua Transit System (Citybus)	Nashua	Fixed Route Bus	NH						P			[RA]		
		Demand Responsive	NH						P			[RA]		
North Country Transportation	Berlin	Fixed Route Bus	NH						[P]			T	X	
		Demand Responsive	NH						[P]			T	X	
DeCamp Commuter Services	Montclair	Fixed Route Bus	NJ	X		X			I					
Roadrunner Transit	Las Cruces	Fixed Route Bus	NM	X	X							[RA]		
		Demand Responsive	NM									[RA]		
ATC/VanCom Paratransit	North Las Vegas	Fixed Route Bus	NV	X	X	X			[P]			T		X
Regional Transportation Commission of Washoe County (Citifare)	Reno	Fixed Route Bus	NV	X	X	X			[P]	[X]		[RA]		X
		Demand Responsive	NV						[P]	[X]		[RA]		X
Adirondack Transit Lines, Inc.	Hurley	Fixed Route Bus	NY					[X]	P					
Atlantic Express Transportation Group, Inc.	Staten Island	Fixed Route Bus	NY						P		X			
		Demand Responsive	NY						P		X			
Broome County Transit	Vestal	Fixed Route Bus	NY	X	X	X			P				X	
		Demand Responsive	NY						P				X	
Chemung County Transportation Services Transit System	Elmira	Fixed Route Bus	NY						P			[RA]		
		Demand Responsive	NY						P			[RA]		
Dutchess County Mass Transportation Division	Poughkeepsie	Fixed Route Bus	NY	X					P					
		Demand Responsive	NY						P					
Kaser Bus Service	Monsey	Fixed Route Bus	NY											
Lester Lines	Wallkill	Fixed Route Bus	NY						P					
New Windsor-Cornwall Dial-A-Bus	New Windsor	Demand Responsive	NY											
Newburgh-Beacon Bus Corporation	Newburgh	Fixed Route Bus	NY						P, I					

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
		Demand Responsive	NY						P, I					
Poughkeepsie Transit System	Poughkeepsie	Fixed Route Bus	NY	X					P		X			
Tompkins Consolidated Area Transit	Ithaca	Fixed Route Bus	NY	X		[X]			[W]			[RA]	X	
		Demand Responsive	NY						[W]			[RA]	X	
Town of Newburgh Dial-A-Bus	Newburgh	Demand Responsive	NY						P					
Transport of Rockland	Pomona	Fixed Route Bus	NY	[X]					[I]		[X]	[RA]		[X]
		Demand Responsive	NY						[I]		[X]	[RA]		[X]
Utica Transit Authority	Utica	Fixed Route Bus	NY						P					
		Demand Responsive	NY						P					
Allen County Regional Transit Authority	Lima	Fixed Route Bus	OH			X			P			[RA]		
		Demand Responsive	OH						P			[RA]		
Chillicothe Transit System	Chillicothe	Fixed Route Bus	OH	[X]					[P]					
		Demand Responsive	OH						[P]					
Clermont Transportation Connection	Batavia	Demand Responsive	OH						P			T	X	
Greene CATS	Xenia	Demand Responsive	OH						[P]			[RA], T		
Licking County Transit Board	Newark	Fixed Route Bus	OH						P					
		Demand Responsive	OH						P					
Middletown Transit	Middletown	Fixed Route Bus	OH						[P]			[RA]		
		Demand Responsive	OH						[P]			[RA]		
Newark-Heath Taxi Token Program	Newark	Demand Responsive	OH						[P]					
Northeast Ohio Areawide Coordinating Agency	Brunswick	Fixed Route Bus	OH								X	[RA]		
Portage Area Regional Transportation Authority	Kent	Fixed Route Bus	OH		[X]		[X]					RA	X	
		Demand Responsive	OH									RA	X	

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
Richland County Transit	Mansfield	Fixed Route Bus	OH						P			[RA]		
		Demand Responsive	OH						P			[RA]		
Stark Area Regional Transit Authority	Canton	Fixed Route Bus	OH											
Steel Valley Regional Transit Authority	Steubenville	Fixed Route Bus	OH						[P]					
		Demand Responsive	OH						[P]					
Lawton Area Transit System	Lawton	Fixed Route Bus	OK	[X]					P					
		Demand Responsive	OK						P					
Lane Transit District	Eugene	Fixed Route Bus	OR	X	X	X			[W]			RA	X	X
Rogue Valley Transportation District	Medford	Fixed Route Bus	OR	X	X	X			[I]			[RA], T	X	
		Demand Responsive	OR						[I]			[RA], T	X	
Altoona Metro Transit (AMTRAN)	Altoona	Fixed Route Bus	PA						I					
		Demand Responsive	PA						I					
Area Transportation Authority of N. Central Pennsylvania	Johnsonburg	Fixed Route Bus	PA		[X]	[X]			[I]			[RA]		
		Demand Responsive	PA						[I]			[RA]		
Berks Area Reading Transportation Authority	Reading	Fixed Route Bus	PA		X				I					
		Demand Responsive	PA						I					
Cambria County Transit Authority	Johnstown	Fixed Route Bus	PA						I			[RA]	X	
		Demand Responsive	PA						I			[RA]	X	
Centre Area Transportation Authority	State College	Fixed Route Bus	PA	X	X	X	X		[I]			[RA]		
		Demand Responsive	PA						[I]			[RA]		
Erie Metro Transit Authority	Erie	Fixed Route Bus	PA	X	X				P				X	
		Demand Responsive	PA						P				X	
Mid Mon Valley Transit Authority	Charleroi	Fixed Route Bus	PA	X					[P]			T		X

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
		Demand Responsive	PA						[P]			T		
Pottstown Urban Transit	Pottstown	Fixed Route Bus	PA		[X]				[I]		[X]	[RA]		
		Demand Responsive	PA						[I]		[X]	[RA]		
Red Rose Transit Authority	Lancaster	Fixed Route Bus	PA	X	X				I					
		Demand Responsive	PA						I					
Shenango Valley Shuttle Service	Hermitage	Fixed Route Bus	PA	[X]	X				[I]			T		[X]
		Demand Responsive	PA						[I]			T		[X]
Trans-Bridge Lines, Inc.	Bethlehem	Fixed Route Bus	PA	[X]	[X]				P		X			
Williamsport Bureau of Transportation (City Bus)	Williamsport	Fixed Route Bus	PA	X	X				[P], [I]			[RA]	X	X
		Demand Responsive	PA						[P], [I]			[RA]	X	
York County Transportation Authority (Rabbit Transit)	York	Fixed Route Bus	PA	X	X	X						T		
		Demand Responsive	PA									T		
Charleston Area Regional Transportation Authority	Charleston	Fixed Route Bus	SC	X	X				I					X
		Demand Responsive	SC						I					X
Columbia Transit	Columbia	Fixed Route Bus	SC						I			[RA]	X	
		Demand Responsive	SC		X	X			I			[RA]	X	
Pee Dee Regional Transportation Authority	Florence	Fixed Route Bus	SC	[X]	[X]				[I]					
		Demand Responsive	SC						[I]					
Santee Wateree Regional Transportation Authority	Sumter	Fixed Route Bus	SC											
		Demand Responsive	SC											
Spartanburg County Transportation	Spartanburg	Demand Responsive	SC						P			[RA]	X	[X]
Sioux Falls Transit	Sioux Falls	Fixed Route Bus	SD		[X]				[P]			[RA]		
		Demand Responsive	SD						[P]			[RA]		[X]

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
Bristol Tennessee Transit	Bristol	Fixed Route Bus	TN	X					P				X	
		Demand Responsive	TN						P				X	
Chattanooga Area Regional Transit Authority	Chattanooga	Light Rail	TN						[I]			RA		
		Fixed Route Bus	TN	X		[X]			[I]			RA		[X]
		Demand Responsive	TN						[I]			RA		[X]
Clarksville Transit System	Clarksville	Fixed Route Bus	TN	X	X				P					
		Demand Responsive	TN						P					
Jackson Transit Authority	Jackson	Fixed Route Bus	TN						P			[RA]		
		Demand Responsive	TN						P			[RA]		
Johnson City Transit System	Johnson	Fixed Route Bus	TN						I			RA, T		
		Demand Responsive	TN						I			RA, T		
Kingsport Area Transit Service	Kingsport	Fixed Route Bus	TN	[X]	[X]	[X]			P					
		Demand Responsive	TN						P					
Mountain Line	Missoula	Fixed Route Bus	TN											
		Demand Responsive	TN											
Amarillo City Transit System	Amarillo	Fixed Route Bus	TX						P			RA		
		Demand Responsive	TX						P			RA		
Beaumont Municipal Transit System	Beaumont	Fixed Route Bus	TX	X		X			P			[RA]		
		Demand Responsive	TX						P			[RA]		
Brownsville Urban System	Brownsville	Fixed Route Bus	TX	X	X	X			[I]			RA, T		[X]
		Demand Responsive	TX						[I]			RA, T		[X]
City of Arlington, HANDITRAN	Arlington	Demand Responsive	TX						[P]			[RA]		
City of Longview Transportation	Kilgore	Demand Responsive	TX						I					

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
City of Tyler	Tyler	Fixed Route Bus	TX		X				P			[RA], T		[X]
		Demand Responsive	TX						P			[RA], T		X
CityLink	Abilene	Fixed Route Bus	TX		X							[RA]		
		Demand Responsive	TX									[RA]		[X]
Corpus Christi Regional Transportation Authority	Corpus Christi	Fixed Route Bus	TX						I			RA	X	X
		Ferry Boat	TX						I			RA	X	
		Demand Responsive	TX						I			RA	X	X
Grand Prairie Transit Services	Grand Prairie	Demand Responsive	TX						P					
Hill Country Transit District	Temple	Fixed Route Bus	TX	X					I			[RA]		
		Demand Responsive	TX						I			[RA]		
Island Transit	Galveston	Light Rail	TX						P, I			RA		
		Fixed Route Bus	TX						P, I			RA		
		Demand Responsive	TX						P, I			RA		
Laredo Municipal Transit System	Laredo	Fixed Route Bus	TX	X	X	X			I			[RA]		
		Demand Responsive	TX						I			[RA]		
Mesquite City Transit	Mesquite	Demand Responsive	TX						P					
Port Authur Transit	Port Authur	Fixed Route Bus	TX											
		Demand Responsive	TX											
Regional Transportation Authority	Arlington	Fixed Route Bus	TX	X	X	X			[P]	[X]		RA, T		X
		Ferry Boat	TX						[P]	[X]		RA, T		
		Demand Responsive	TX						[P]	[X]		RA, T		X
San Angelo Street Railroad Company	San Angelo	Fixed Route Bus	TX											
Texoma Area Paratransit System	Sherman	Demand Responsive	TX						P					

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
The District	Bryan	Fixed Route Bus	TX						P			[RA]		
		Demand Responsive	TX						P			[RA]		[X]
The Gulf Coast Center (Connect Transportation)	Galveston	Demand Responsive	TX						I			RA	X	
Waco Transit	Waco	Fixed Route Bus	TX		X				P			[RA]		
		Demand Responsive	TX						P			[RA]		
Wichita Falls Transit System	Wichita Falls	Demand Responsive	TX						P			[RA]		
Logan Transit District	Logan	Fixed Route Bus	UT	X	X	X			[P]			[RA]		
		Demand Responsive	UT						[P]			[RA]		
Alexandria Transit Company (DASH)	Alexandria	Fixed Route Bus	VA		[X]				[P]	X	X	RA	X	[X]
Arlington Transit - Arlington County	Arlington	Fixed Route Bus	VA					[X]	P		[X]		X	
Blacksburg Transit	Blacksburg	Fixed Route Bus	VA		X				[I]	[X]		[RA]		[X]
		Demand Responsive	VA						[I]	[X]		[RA]		
Bristol Virginia Transit	Bristol	Fixed Route Bus	VA						[P]					
		Demand Responsive	VA						[P]					
Charlottesville Transit Service	Charlottesville	Fixed Route Bus	VA	[X]	X	[X]			[I]					
Danville Mass Transit	Danville	Fixed Route Bus	VA		X				P					
		Demand Responsive	VA						P					
Fredericksburg Regional Transit	Fredericksburg	Fixed Route Bus	VA						P					
Greater Lynchburg Transit Company	Lynchburg	Fixed Route Bus	VA	[X]	X	[X]			P, W, I				X	
		Demand Responsive	VA						P, W, I				X	[X]
Greater Roanoke Transit Company	Roanoke	Fixed Route Bus	VA	X	X	X			I			[RA]		
		Demand Responsive	VA						I			[RA]		
JAUNT	Charlottesville	Demand Responsive	VA						[P]			RA	X	X

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
Loudoun County Commuter Bus Service	Leesburg	Fixed Route Bus	VA						I		X	[RA], T	X	
Williamsburg Area Transport	Williamsburg	Fixed Route Bus	VA						[P]		X	RA	X	
		Demand Responsive	VA						[P]		X	RA	X	
Addison County Transit Resources	Middlebury	Fixed Route Bus	VT						[P]					
		Demand Responsive	VT						[P]					
Advance Transit	Wilder	Fixed Route Bus	VT		X				P					
Brattleboro BeeLine	Brattleboro	Fixed Route Bus	VT			X			I	X				
		Demand Responsive	VT						I	X				
Chittenden County Transportation Authority	Burlington	Fixed Route Bus	VT	X		X			[P]			[RA]	X	
Fort Ticonderoga Ferry	Shorehan	Ferry Boat	VT						P					
Green Mountain Express	Bennington	Fixed Route Bus	VT						P				X	
		Demand Responsive	VT	[X]					P				X	
Rural Community Transportation	St. Johnsbury	Fixed Route Bus	VT						P			T		
		Demand Responsive	VT						P			T		
Ben Franklin Transit	Richland	Fixed Route Bus	WA	X	X				[P]	[X]		[RA]		
		Demand Responsive	WA						[P]	[X]		[RA]		X
Community Urban Bus Service	Longview	Fixed Route Bus	WA										X	
		Demand Responsive	WA										X	
CTRAN	Vancouver	Fixed Route Bus	WA	X	X	X			[I]			[RA], T	X	[X]
		Demand Responsive	WA						[I]			[RA], T	X	[X]
Everett Transit	Everett	Fixed Route Bus	WA						[W]			[RA]	X	
		Demand Responsive	WA	X	X				[W]			[RA]	X	
InterCity Transit	Olympia	Fixed Route Bus	WA		[X]				[P]	[X]		RA	X	

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
		Demand Responsive	WA						[P]	[X]		RA	X	
Lewis Public Transportation Benefit Area	Centralia	Fixed Route Bus	WA											
		Demand Responsive	WA											
Pullman Transit	Pullman	Fixed Route Bus	WA						P					
		Demand Responsive	WA						P					
Spokane Transit Authority	Spokane	Fixed Route Bus	WA		X				[P]	[X]		[RA]		
		Demand Responsive	WA						[P]	[X]		[RA]		
Whatcom Transportation Authority	Wilmington	Fixed Route Bus	WA		X				[I]			[RA]	X	
		Demand Responsive	WA						[I]			[RA]	X	
Yakima Transit	Yakima	Fixed Route Bus	WA	X								T		
Belle Urban System	Racine	Fixed Route Bus	WI	X	X	X			[P]			RA		X
		Demand Responsive	WI						[P]			RA		
Beloit Transit System	Beloit	Fixed Route Bus	WI	X	X	X			I				X	
Chippewa Falls Shared Ride Taxi Program	Chippewa-Falls	Demand Responsive	WI						P					
Eau Claire Transit	Eau Claire	Fixed Route Bus	WI	X	X	X			[W]				X	
LaCrosse Municipal Transit Utility	LaCrosse	Fixed Route Bus	WI	X		X			I				X	
		Demand Responsive	WI						I				X	
Madison Metro	Madison	Fixed Route Bus	WI											
		Demand Responsive	WI											
Onalaska Shared Ride Taxi	Onalaska	Demand Responsive	WI						I			[RA]		
Oshkosh Transit System	Oshkosh	Fixed Route Bus	WI						P					
		Demand Responsive	WI						P					
Ozaukee County Transit Services	Port Washington	Fixed Route Bus	WI		X				P					

Agency	City	Service	State	Surveillance Cameras	Silent Alarms	Covert Microphones	Remote Disabling System	Other Device	Automated Transit Information	Multi-Modal Traveler Information	Multi-Carrier Fare Integration	ITS Integration	Weather	Mobile Data Terminal
		Demand Responsive	WI						P					
Valley Transit	Appleton	Fixed Route Bus	WI	X					P			[RA], T	X	
		Demand Responsive	WI						P			[RA], T	X	
Washington County Transit	West Bend	Fixed Route Bus	WI											
		Demand Responsive	WI											
Wausau Area Transit System	Wausau	Fixed Route Bus	WI	X	X				P					
Kanawha Valley Regional Transportation Authority	Charleston	Fixed Route Bus	WV	X					P					
		Demand Responsive	WV						P					
Mid-Ohio Valley Transit Authority	Parkersburg	Fixed Route Bus	WV	X		X			[P]					
		Demand Responsive	WV						[P]					
Ohio Valley Regional Transportation Authority	Wheeling	Fixed Route Bus	WV	X	X							[RA]		
		Demand Responsive	WV									[RA]		
Tri-State Transit Authority	Huntington	Fixed Route Bus	WV	X	X				[W]					
Weirton Transit Corporation	Steubenville	Fixed Route Bus	WV											
		Demand Responsive	WV											
Casper Area Transportation Coalition	Casper	Demand Responsive	WY						[W]			[RA]		
Cheyenne Transit Program	Cheyenne	Fixed Route Bus	WY						P					
		Demand Responsive	WY						P					
Southern Teton Area Rapid Transit	Jackson	Fixed Route Bus	WY						P					
		Demand Responsive	WY						P					

5 APPENDIX A – DEFINITIONS OF TERMS USED

Advanced Communications - digital radio (sound converted into binary information and transmitted across airwaves) and/or trunked radio (a computer selection of an available frequency, as opposed to manual selection or use of pre-set frequency).

Automated Fare Payment - payment schemes by which riders pay for trips by non-paper media (e.g., magnetic stripe card or smart card) purchased in advance or by credit or debit cards.

Automated Operations Software - software that displays automatic vehicle location-equipped vehicle positions, vehicle data, operator data, and communications information on dispatcher monitors; automated control software for light, heavy, or commuter rail systems; automated scheduling software for demand response service. (This category does not include basic run-cutting and scheduling packages for fixed route services which, off-line, develop set schedules for buses and drivers.)

Automated Transit Information - systems that provide information to the public, without human intervention, either on route, schedule, stop, transfer, fare, trip planning, and/or real-time schedule adherence or arrival times for fixed route service or service area, service hours, and fare information for demand responsive service. Dissemination methods can include automated telephone (including 511 systems) and cellular phone, Internet Web Site, television, pagers, personal digital assistants, kiosks, e-mail, personal computer communications, automated announcements and variable message signs inside and outside transit vehicles, and monitors at stops or stations.

Automatic Passenger Counter - an automated means of counting boarding and alighting passengers (e.g., infrared beams or treadle mats placed by the door).

Automatic Vehicle Location - position determination via an automatic technology or combination of technologies, such as Global Positioning System (triangulation of satellite signals), Signposts (beacons at known locations transmit signals picked up by vehicle), Ground-Based Radio (triangulation of radio tower signals), or Dead-Reckoning (vehicle's odometer and compass used to measure new position from previous known position), and typically includes real-time reporting of that location to a control center.

Covert Microphone - a hidden microphone on the vehicle that can be opened by the dispatcher to listen to what is happening on the vehicle during emergency situations.

Mobile Data Terminal - a wireless device that can send and receive information over a wireless data network. MDTs typically have a small screen that displays messages sent by the dispatch center and a series of buttons that can be pushed to send preset messages to the dispatch center.

Mobility Manager - coordination of travel requests and vehicle dispatching for multiple agencies (e.g., social service agencies, HHS, transit agencies, etc.) Riders or agencies are billed by the Mobility Manager.

Multi-Modal Traveler Information - information made available to the public from a single source covering multiple modes (i.e., transit and traffic or different transit modes operated by multiple transit operators).

Multi-Carrier Fare Integration - any fare structure or payment mechanism which covers more than one provider. This includes cards, tokens, transfers, or other payment media (other than cash) that is accepted by at least two providers (including toll agencies).

Organized Regional Incident Management Program – organized program under which transit agency's operators or dispatcher report traffic incidents, and/or participation in a statewide disaster planning program.

Silent Alarm - an emergency signal activated by the vehicle operator pushing a concealed button that alerts the dispatch center to an emergency situation on-board the vehicle.

Surveillance Camera - a camera used to record actions taking place on the vehicle. Images are typically stored for a period of time for subsequent review of incidents.

Traffic Signal Priority - a means of giving transit vehicles priority at traffic signals by advancing the green signal phase or extending the green phase in order to minimize the delay. The priority may be actuated manually (e.g., by the driver pressing a switch on the vehicle) or automatically (e.g., linked to an AVL system).

Transportation Management Center - a facility housing the operations management centers for at least two transportation modes. This might include highway congestion mitigation (e.g., assist in incident management) and transit dispatching.

Vehicle Component Monitoring - continuous automatic remote measurement of vehicle component status (i.e., engine oil pressure, engine temperature, electrical system, tire pressure, etc.).

Vehicle Probe - AVL equipped transit bus data provided to highway agencies for calculation of roadway travel times, travel speeds, and flow conditions

Weather information - Weather information tailored to particular agency requirements, including current and forecast road conditions and weather information (e.g., surface condition, flooding, wind advisories, visibility, etc.) associated with the transportation network. This information is of a resolution, timeliness, and accuracy to be useful in transportation decision making.

6 APPENDIX B – 1995-2004 DEPLOYMENT DATA

Table 6-1. Advanced Communications

Survey Year	1995	1998	2000	2002	2004
Operational	58	140	229	268	286
Planned	22	81	94	81	36
Total	80	221	323	349	322

Table 6-2. Automatic Vehicle Location

Survey Year	1995	1998	2000	2002	2004
Operational	22	61	88	127	157
Planned	64	100	142	171	100
Total	86	161	230	298	257

Table 6-3. Vehicle Probes

Survey Year	1995	1998	2000	2002	2004
Operational			8	13	14
Planned			4	27	22
Total			12	40	36

Table 6-4. Automatic Passenger Counters

Survey Year	1995	1998	2000	2002	2004
Operational	11	24	33	61	75
Planned	21	30	74	123	58
Total	32	54	107	184	129

Table 6-5. Mobile data terminals

Survey Year	1995	1998	2000	2002	2004
Operational				100	115
Planned				134	137
Total				234	252

Table 6-6. Vehicle Component Monitoring

Survey Year	1995	1998	2000	2002	2004
Operational	5	13	46	79	87
Planned	24	31	68	119	109
Total	29	44	114	198	196

Table 6-7. Automated Operations Software

Survey Year	1995	1998	2000	2002	2004
Operational	25	40	107	132	152
Planned	50	55	135	153	165
Total	75	95	242	272	317

Table 6-8. Automated Transit Information

Survey Year	1995	1998	2000	2002	2004
Operational	48	89	291	445	488
Planned	45	75	48	50	24
Total	93	164	339	495	512

Table 6-9. Multimodal Traveler Information

Survey Year	1995	1998	2000	2002	2004
Operational				42	53
Planned				97	66
Total				139	119

Table 6-10. Electronic Fare Payment

Survey Year	1995	1998	2000	2002	2004
Operational	22	42	99	139	159
Planned	43	68	76	127	134
Total	65	110	175	266	293

Table 6-11. Multicarrier Fare Integration

Survey Year	1995	1998	2000	2002	2004
Operational				60	75
Planned				55	32
Total				115	107

Table 6-12. Mobility Manager

Survey Year	1995	1998	2000	2002	2004
Operational				115	120
Planned				105	68
Total				120	188

Table 6-13. Surveillance Cameras

Survey Year	1995	1998	2000	2002	2004
Operational				158	202
Planned				87	112
Total				245	314

Table 6-14. Silent Alarms

Survey Year	1995	1998	2000	2002	2004
Operational				168	205
Planned				58	98
Total				226	303

Table 6-15. Covert Microphones

Survey Year	1995	1998	2000	2002	2004
Operational				89	126
Planned				45	75
Total				134	201

Table 6-16. Transportation Management Centers

Survey Year	1995	1998	2000	2002	2004
Operational				66	82
Planned				105	25
Total				171	97

Table 6-17. Traffic Signal Priority

Survey Year	1995	1998	2000	2002	2004
Operational	9	16	30	36	39
Planned	18	40	58	81	66
Total	27	56	88	117	105

Table 6-18. Organized Regional Incident Management Program

	1995	1998	2000	2002	2004
Operational				426	402
Planned				15	5
Total				441	407